GRUNDIG SERVICE MANUAL

HIFI

Ⓓ Btx ★ 32700 #

Service Manual

Sach-Nr./Part No.
72010-738.60

Zusätzlich erforderliche Unterlagen für den Komplettservice:

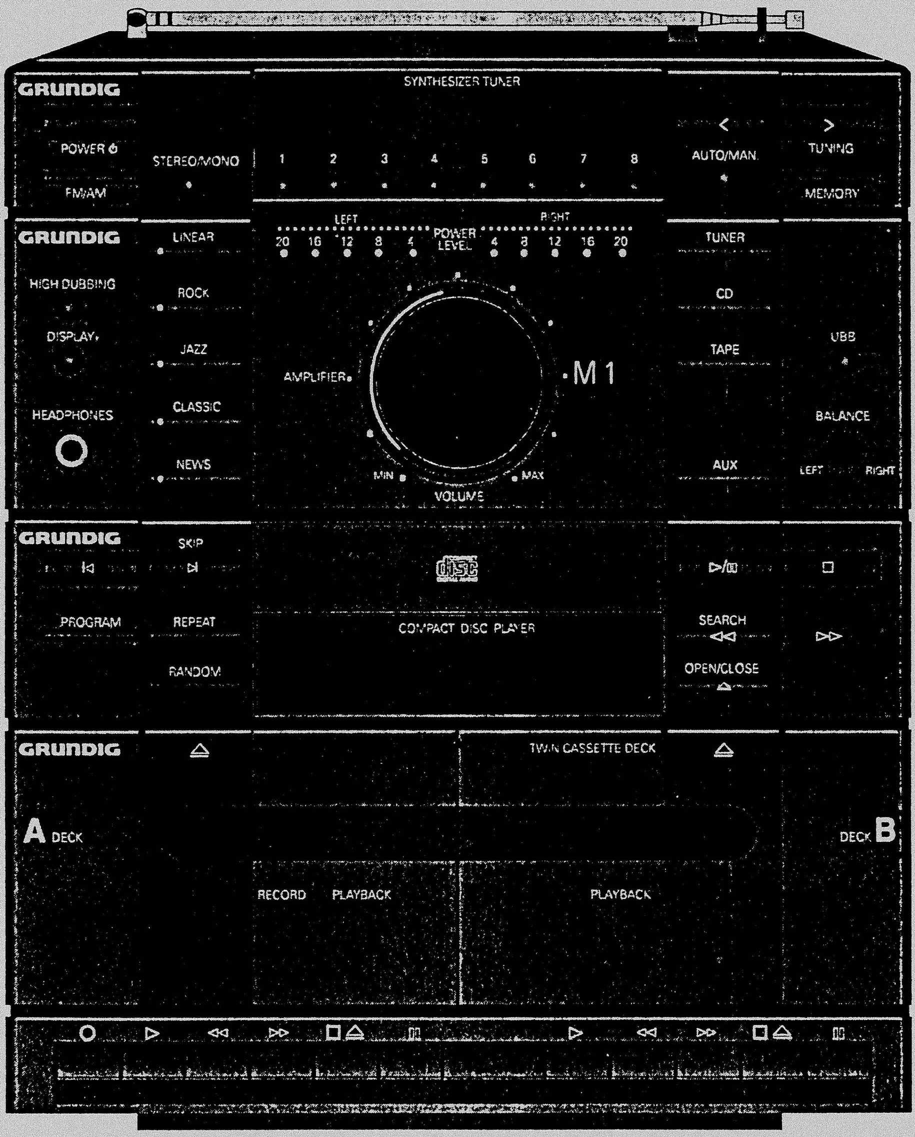
Additionally required Service Manuals for the Complete Service:

Service Manual

Sicherheit
Safety

Sach-Nr./Part No.
72010-800.00

M1


GRUNDIG
SYNTHESIZER TUNER
POWER
STEREO/MONO
1 2 3 4 5 6 7 8
AUTO/MAN.
TUNING
FM/AM
MEMORY
GRUNDIG
LINEAR
LEFT
RIGHT
POWER LEVEL
20 16 12 8 4 4 8 12 16 20
TUNER
HIGH DUBBING
ROCK
CD
DISPLAY
JAZZ
TAPE
UBB
AMPLIFIER
M1
HEADPHONES
CLASSIC
BALANCE
NEWS
AUX
LEFT
RIGHT
MIN
MAX
VOLUME
GRUNDIG
SKIP
disc
PROGRAM
REPEAT
COMPACT DISC PLAYER
SEARCH
RANDOM
OPEN/CLOSE
GRUNDIG
TWIN CASSETTE DECK
A DECK
DECK B
RECORD
PLAYBACK
PLAYBACK

GRUNDIG

M1 (75.4011-1051 / G.KD 5251)

Änderungen vorbehalten
Subject to alteration

Printed in Germany
VK 225 0294

Service Manual Sach-Nr. 72010-738.60
Service Manual Part No. 72010-738.60

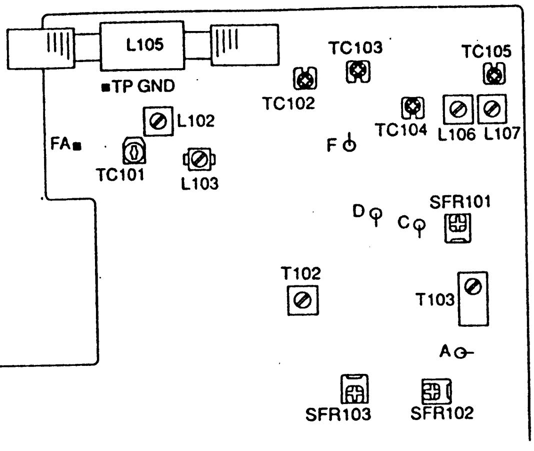
Ⓓ

Abgleich

1. Tuner

Meßgeräte:

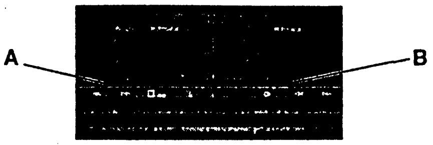
- Meß-/Wobbelsender
- Stereocoder
- Oszilloskop
- DC-Voltmeter
- NF-Voltmeter
- Klirrfaktormeßgerät



Abgleich	Vorbereitung	Abgleichvorgang
1. AM ZF	MW, 999kHz **Meßsendersignal** über Rahmenantenne einspeisen. U_a ca.80dBµV, m=30%, f_{mod} = 1kHz **NF-Voltmeter und Klirrfaktormeßgerät an Lautsprecherausgang**	Mit **T103** auf **maximalen Pegel und minimalen Klirrfaktor** einstellen.
2. MW Oszillator	MW, 531kHz, 1602kHz **DC-Voltmeter** an Meßpunkt **F**	Mit **L106** bei **531kHz 1V** einstellen. Mit **TC104** bei **1602kHz 7,5V** einstellen. Abgleich wechselseitig wiederholen.
3. MW Vorkreis	MW, 603kHz, 1404kHz **Meßsendersignal** über Rahmenantenne einspeisen. U_a <, m=30%, f_{mod} = 1kHz **NF-Voltmeter** an **Lautsprecherausgang**	Mit **L105 MW** bei **603kHz Maximum** einstellen. Mit **TC102** bei **1404kHz Maximum** einstellen. Abgleich wechselseitig wiederholen.
4. AM-Suchlaufstopp	MW, 999kHz **Meßsendersignal** über Rahmenantenne einspeisen. U_a ca. 60dBµV, m=30%, f_{mod} = 1kHz **DC-Voltmeter** an Meßpunkt **A**	Mit **SFR102** auf Spannungssprung von **5V->0V** einstellen.
5. LW Oszillator	LW, 153kHz, 281kHz **DC-Voltmeter** an Meßpunkt **F**	Mit **L107** bei **153kHz 1,2V** einstellen. Mit **TC105** bei **281kHz 4,5V** einstellen.
6. LW Vorkreis	LW, 164kHz, 272kHz **Meßsendersignal** über Rahmenantenne einspeisen. U_a <, m=30%, f_{mod} = 1kHz **NF-Voltmeter** an **Lautsprecherausgang**	Mit **L105 LW** bei **164kHz Maximum** einstellen. Mit **TC103** bei **272kHz Maximum** einstellen. Abgleich wechselseitig wiederholen.
7.FM ZF	FM, 98MHz **Wobbler** 98MHz an Meßpunkt **FA**. Pegel ca. 100µV / 75Ω, Δf = ±200kHz **Oszilloskop** an **IC101 Pin 1.**	Mit **T101 Maximum** und **Symmetrie** einstellen.
8. FM Demodulator	FM; 98,00MHz (Behelfsabgleich: Frequenz eines Ortssenders einstellen) **Meßsendersignal**; 98,00MHz; Δf 40kHz;U_a 60dBµV an Meßpunkt **FA** einspeisen. (Behelfsabgleich: Ortssender über Antenne einspeisen.) **DC-Voltmeter** an die Meßpunkte **C und D.**	Mit **T102 0V** ± **30mV** einstellen.
9. FM Vorkreis	FM; 88MHz, 106MHz **Meßsendersignal**; Δf 40kHz;U_a 60dBµV an Meßpunkt **FA** einspeisen. **NF-Voltmeter** an **Lautsprecherausgang**	Mit **L102** bei **88MHz Maximum** einstellen. Mit **TC101** bei **106MHz Maximum** einstellen. Abgleich wechselseitig wiederholen.
10.Stereo-Übersprechdämpfung	FM **Stereocoder** linker Kanal moduliert an **Antennenbuchse**. NF-Voltmeter an NF-Ausgang rechter Kanal.	Mit **SFR103** Minimum einstellen. Danach rechten Kanal modulieren und linken NF-Ausgang kontrollieren.
11.Suchlaufstopp	FM 98MHz **Meßsendersignal**; 98,00MHz; 19kHz Pilotton ein; 20dBµV (10µV) an **Antennenbuchse** einspeisen.	**SFR101** so einstellen, daß die Anzeige "STEREO" im Display erscheint.

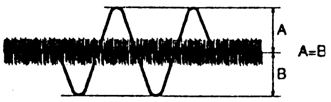
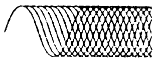
2. Tape Decks

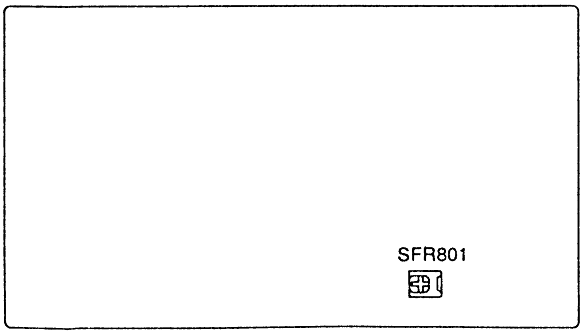
Meßgeräte/Meßmittel:
Oszilloskop, DC-Voltmeter, NF-Voltmeter, Frequenzzähler, NF-Generator, Testkassette 449 Sachnr.: 35079-019.00.

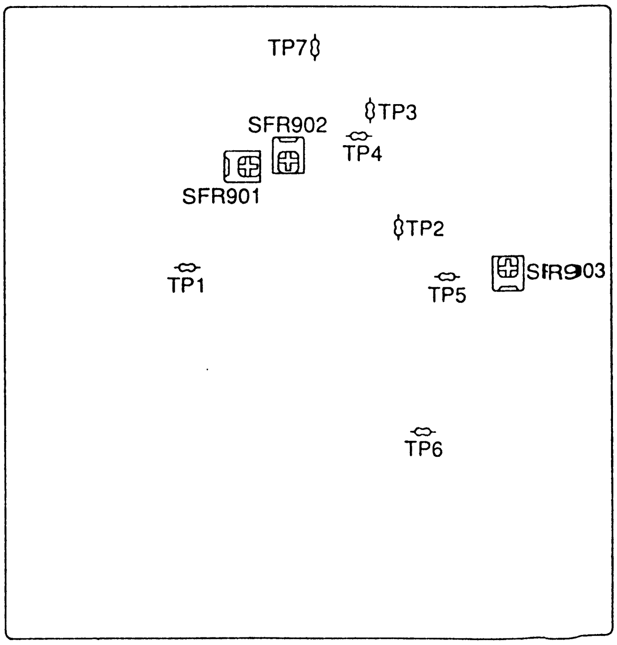
Abgleich	Vorbereitung	Abgleichvorgang
1. Azimut	Tape, DOLBY NR aus Testkassette 449 Pegeltonteil 10kHz wiedergeben. **NF-Voltmeter** an **NF-Ausgang**.	Mit Schraube A bei Laufwerk A, Mit Schraube B bei Laufwerk B an beiden Kanälen Maximum einstellen. 
2. Geschwindigkeit	Tape. Testkassette 449 Pegeltonteil 3150Hz wiedergeben. **Frequenzzähler** an **NF-Ausgang**.	Mit **SFR801 3150Hz ± 60Hz** einstellen.

3. CD

Meßgeräte/Meßmittel:
Oszilloskop, Frequenzzähler, Test-CD Sachnr.: 72008-376.00

Abgleich	Vorbereitung	Abgleichvorgang
1. PLL	CD, **TP5 mit TP2 kurzschließen.** **Frequenzzähler** an **TP6 und TP2 (GND).**	Mit **SFR903** die Frequenz auf **4,233MHz** ± **10kHz** einstellen.
2. Tracking Balance	CD. Test-CD wiedergeben. **Oszilloskop** an **TP4 und TP7 (GND).**	Mit **SFR901** die Amplitude des Signals **symmetrisch zur Null-Linie** einstellen **(A=B).** 
4. Focus Offset	CD. Test-CD wiedergeben. **Oszilloskop** an **TP1 und TP2 (GND).**	Mit **SFR902** auf "klares" und maximales Signal einstellen. 



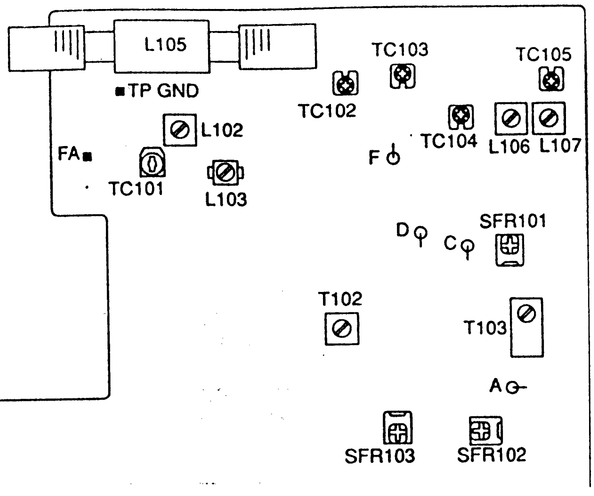


GB

Alignment

1. Tuner

Measuring instruments:
- Standard/sweep signal generator,
- stereocoder
- oscilloscope
- DC-voltmeter
- AF-voltmeter
- distortion meter



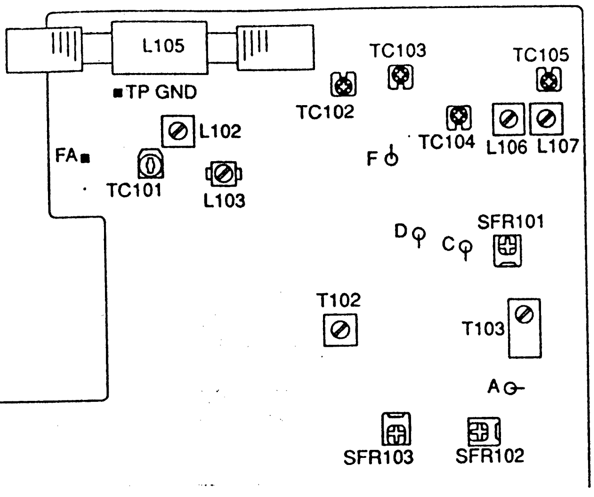
Alignment	Preparation	Procedure
1. AM IF	MW, 999kHz **Feed in a standard signal** via a frame aerial. U_{out} ca.80dBµV, m=30%, f_{mod} = 1kHz **AF-voltmeter and distortion meter to loudspeaker output.**	With **T103** set to **maximum level** and **minimum distortion.**
2. MW Oscillator	MW, 531kHz, 1602kHz **DC-voltmeter** to testpoint **F**	With **L106** set **1V** at **531kHz.** With **TC104** set **7.5V** at **1602kHz.** Repeat this adjustment.
3. MW aerial bandpass circuit	MW, 603kHz, 1404kHz **AF-voltmeter** to **loudspeaker output.**	With **L105 MW** set to **maximum noise** at **603kHz.** With **TC102** set to **maximum noise** at **1404kHz.** Repeat this adjustment.
4. AM scan stop	MW, 999kHz **Feed in a standard signal** via a frame aerial. U_{out} ca. 60dBµV, m=30%, f_{mod} = 1kHz **DC-voltmeter** to testpoint **A**	With **SFR102** set to voltage jump **5V->0V.**
5. LW Oscillator	LW, 153kHz, 281kHz **DC-voltmeter** to testpoint **F**	With **L107** set **1.2V** at **153kHz.** With **TC105** set **4.5V** at **281kHz.**
6. LW aerial bandpass circuit	LW, 164kHz, 272kHz **AF-voltmeter to loudspeaker output.**	With **L105 LW** set to **maximum noise at 164kHz.** With **TC103** set to **maximum noise at 272kHz.** Repeat this adjustment.
7.FM IF	FM, 98MHz **Sweep signal generator** 98MHz to testpoint **FA.** Level ca. 100µV / 75Ω, Δf = ±200kHz **Oscilloscope to IC101 Pin 1.**	With **T101** set **maximum** and **symmetry.**
8. FM demodulator	FM; 98.00MHz (provisional alignment: select the frequency of a local station) **Feed a standard signal**; 98.00MHz; Δf 40kHz; U_a 60dBµV to testpoint **FA.** (provisional alignment: Feed in a local station via the aerial) **DC-voltmeter** between testpoints **C and D.**	With **T102** set **0V ± 30mV.**
9. FM aerial bandpass circuit	FM; 88MHz, 106MHz **Feed a standard signal**; Δf 40kHz; U_a 60dBµV to testpoint **FA.** **AF-voltmeter** to **loudspeaker output.**	With **L102** set to **maximum** at **88MHz.** With **TC101** set to **maximum** at **106MHz.** Repeat this adjustment.
10.Stereo crosstalk attenuation	FM Modulated left channel of a **stereo coder** to testpoint **AF.** **AF-voltmeter** to **loudspeaker output right channel.**	With **SFR103** set to minimum. Subsequently, modulate the right channel and check the left AF-output.
11.FM scan stop	FM 98MHz **Feed a standard signal**; 98.00MHz; 19kHz Pilotton on; 20dBµV (10µV) to testpoint **FA.**	With **SFR101** adjust so that the "STEREO" label is indicated in the display.

GB

Alignment

1. Tuner

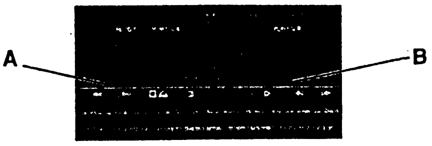
Measuring instruments:
- Standard/sweep signal generator,
- stereocoder
- oscilloscope
- DC-voltmeter
- AF-voltmeter
- distortion meter



Alignment	Preparation	Procedure
1. AM IF	MW, 999kHz **Feed in a standard signal** via a frame aerial. U_{out} ca.80dBµV, m=30%, f_{mod} = 1kHz **AF-voltmeter and distortion meter to loudspeaker output.**	With **T103** set to **maximum level** and **minimum distortion**.
2. MW Oscillator	MW, 531kHz, 1602kHz **DC-voltmeter** to testpoint **F**	With **L106** set **1V** at **531kHz.** With **TC104** set **7.5V** at **1602kHz.** Repeat this adjustment.
3. MW aerial bandpass circuit	MW, 603kHz, 1404kHz **AF-voltmeter** to **loudspeaker output.**	With **L105 MW** set to **maximum noise** at **603kHz.** With **TC102** set to **maximum noise** at **1404kHz.** Repeat this adjustment.
4. AM scan stop	MW, 999kHz **Feed in a standard signal** via a frame aerial. U_{out} ca. 60dBµV, m=30%, f_{mod} = 1kHz **DC-voltmeter** to testpoint **A**	With **SFR102** set to voltage jump **5V->0V.**
5. LW Oscillator	LW, 153kHz, 281kHz **DC-voltmeter** to testpoint **F**	With **L107** set **1.2V** at **153kHz.** With **TC105** set **4.5V** at **281kHz.**
6. LW aerial bandpass circuit	LW, 164kHz, 272kHz **AF-voltmeter** to **loudspeaker output.**	With **L105 LW** set to **maximum noise** at **164kHz.** With **TC103** set to **maximum noise** at **272kHz.** Repeat this adjustment.
7.FM IF	FM, 98MHz **Sweep signal generator** 98MHz to testpoint **FA.** Level ca. 100µV / 75Ω, Δf = ±200kHz **Oscilloscope** to **IC101 Pin 1.**	With **T101** set **maximum** and **symmetry.**
8. FM demodulator	FM; 98.00MHz (provisional alignment: select the frequency of a local station) **Feed a standard signal**; 98.00MHz; Δf 40kHz; U_a 60dBµV to testpoint **FA.** (provisional alignment: Feed in a local station via the aerial) **DC-voltmeter** between testpoints **C and D.**	With **T102** set **0V ± 30mV.**
9. FM aerial bandpass circuit	FM; 88MHz, 106MHz **Feed a standard signal**; Δf 40kHz; U_a 60dBµV to testpoint **FA.** **AF-voltmeter** to **loudspeaker output.**	With **L102** set to **maximum** at **88MHz.** With **TC101** set to **maximum** at **106MHz.** Repeat this adjustment.
10.Stereo crosstalk attenuation	FM Modulated left channel of a **stereo coder** to testpoint **AF.** **AF-voltmeter** to **loudspeaker output right channel.**	With **SFR103** set to minimum. Subsequently, modulate the right channel and check the left AF-output.
11.FM scan stop	FM 98MHz **Feed a standard signal**; 98.00MHz; 19kHz Pilotton on; 20dBµV (10µV) to testpoint **FA.**	With **SFR101** adjust so that the "STEREO" label is indicated in the display.

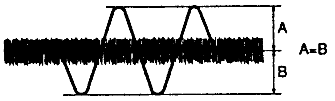
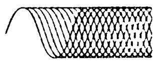
2. Tape Decks

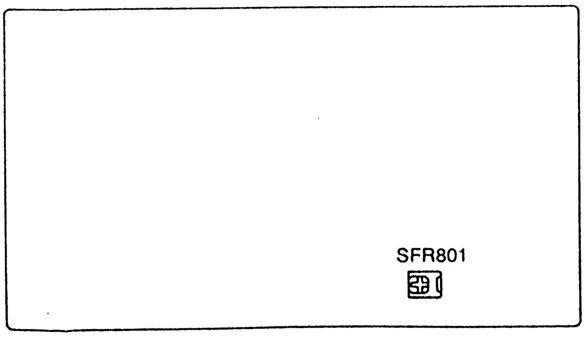
Measuring instruments/Test equipment:
Oscilloscope, DC-voltmeter, AF-voltmeter, Frequency counter, AF-generator, test cassette 449 Part no.: 35079-019.00.

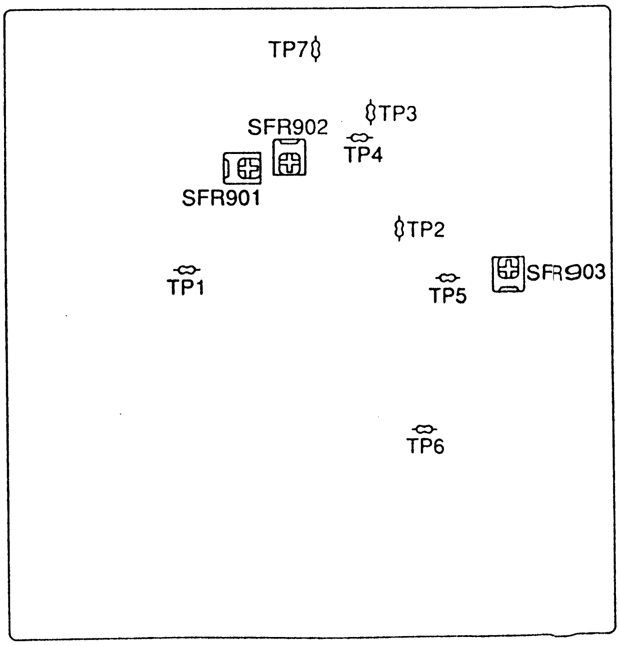
Alignment	Preparation	Procedure
1. Azimuth	Tape, DOLBY NR off Play back the 10 kHz sound part of the test cassette 449. **AF-voltmeter** to **AF-output.**	With screw A adjust both channels of tape A to maximum, with screw B adjust both channels of tape B to maximum. 
2. Speed	Tape. Play back the 3150Hz sound part of the test cassette 449. **Frequency counter** to **AF-output.**	With **SFR801** set **3150Hz ± 60Hz.**

3. CD

Measuring instruments/Test equipment:
Oscilloscope, Frequency counter, Test-CD Part no.: 72008-376.00

Alignment	Preparation	Procedure
1. PLL	CD, **short-circuit TP5 to TP2.** **Frequency counter** to **TP6 and TP2 (GND).**	With **SFR903** set the frequency to **4.233MHz** ± **10kHz.**
2. Tracking Balance	CD. Test-CD, Playback Pause. **Oscilloscope** to **TP4 and TP7 (GND).**	With **SFR901** adjust the amplitude of the signalso that it is **symmetrical to the reference line (A=B).** 
4. Focus Offset	CD. Test CD, Playback. **Oscilloscope** to **TP1 and TP2 (GND).**	With **SFR902** adjust for a "clear" and maximum signal. 

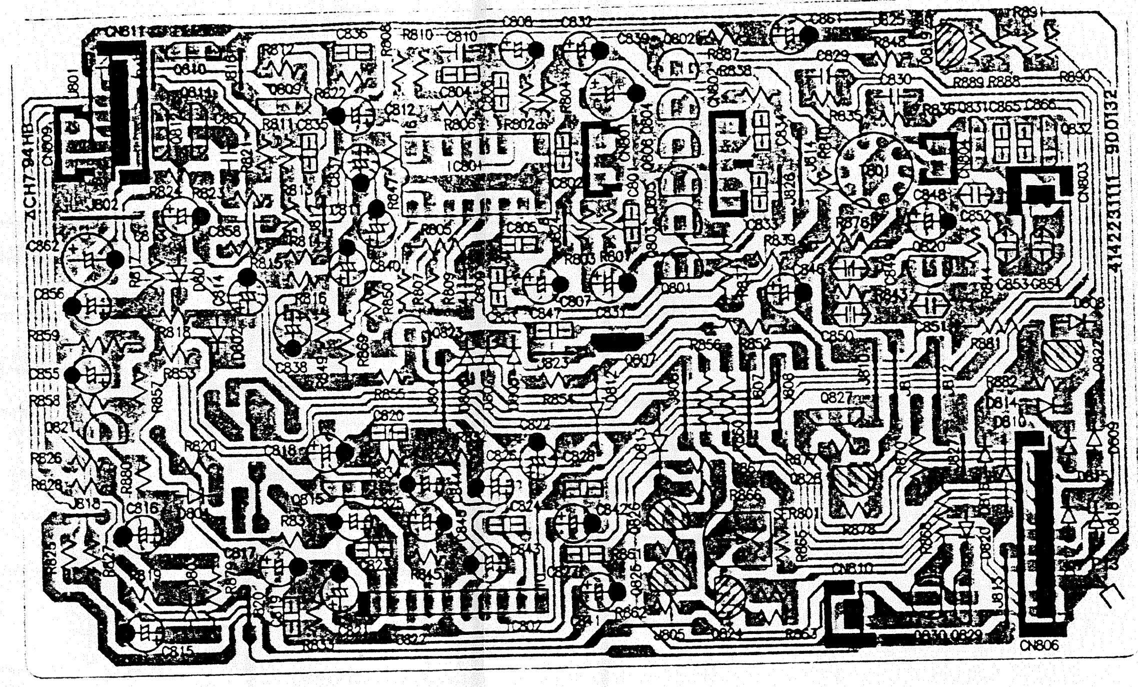




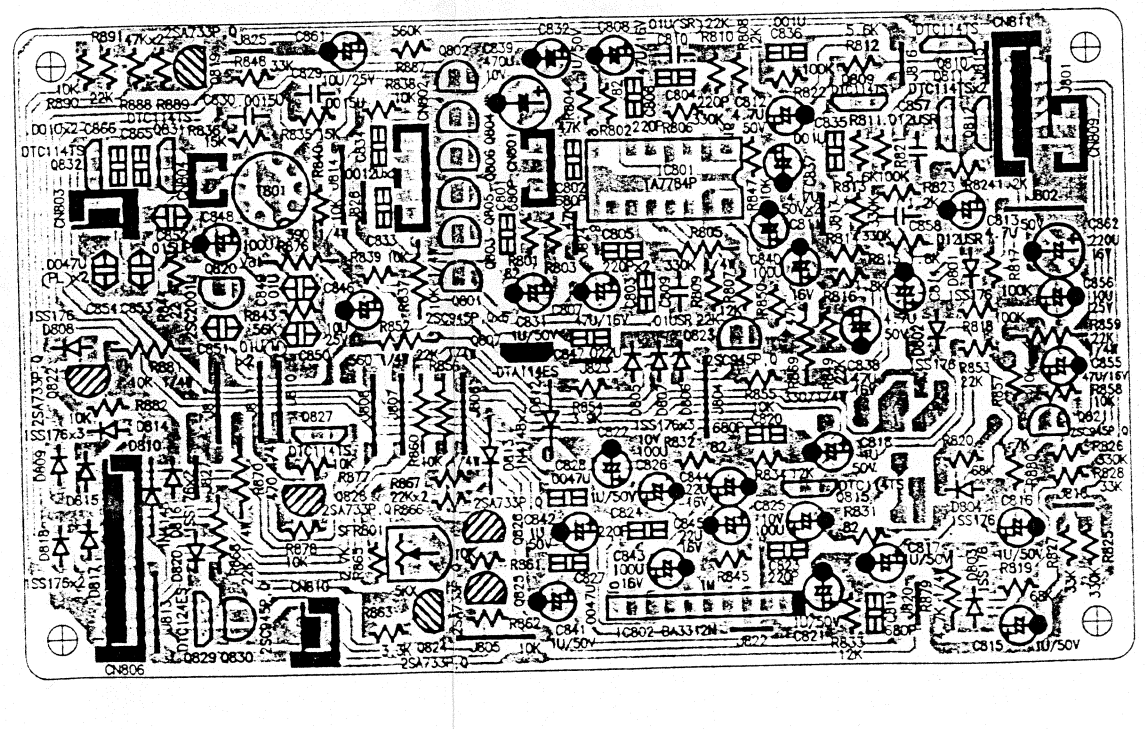
Platinenabbildungen und Schaltpläne
Layout of the PCBs and Circuit Diagram

Platinenabbildung Cassettenteil
Layout of the Cassette PCB

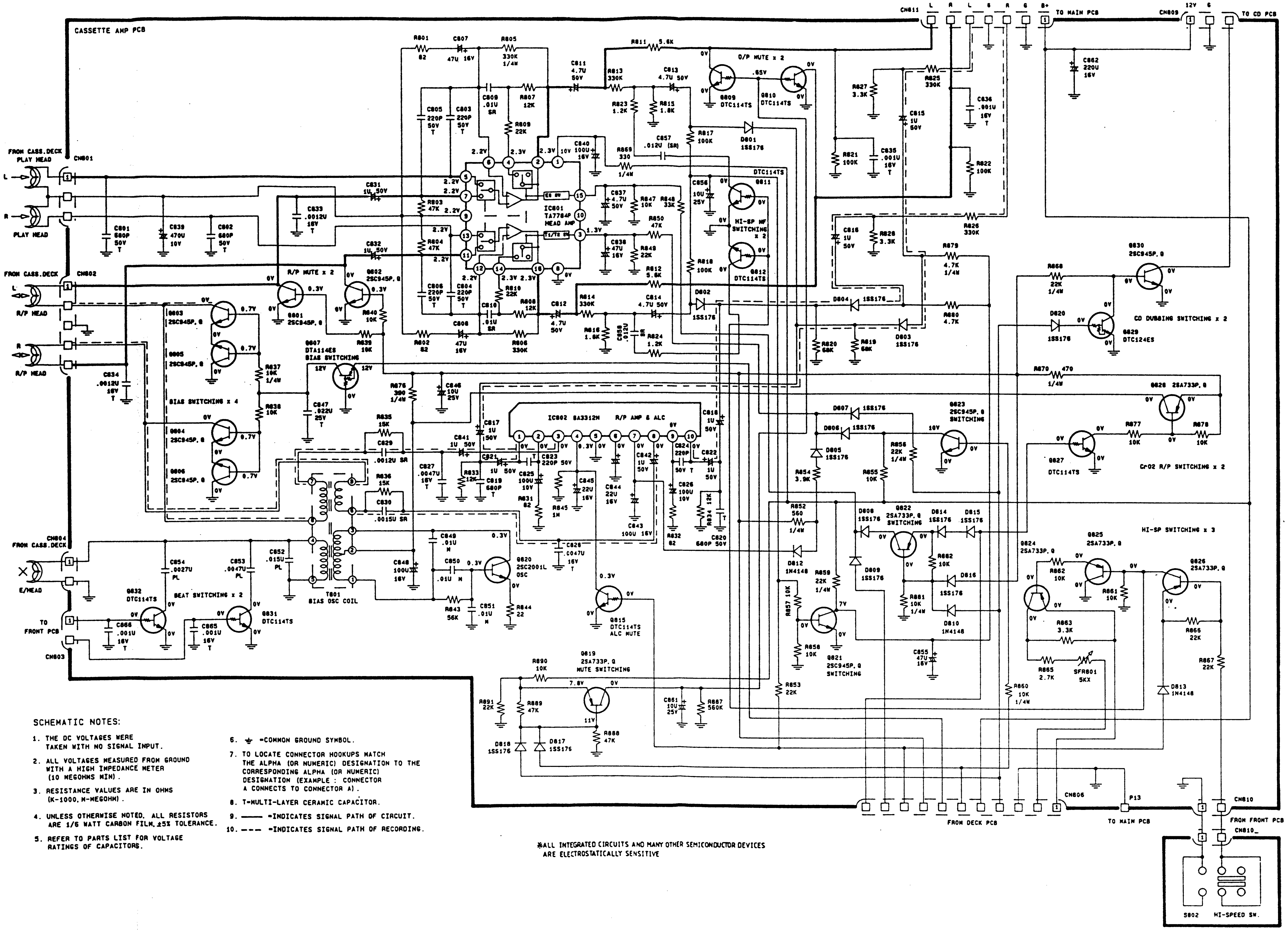
Bestückungsseite
Component side



Lötseite
Solder side



Schaltplan Cassettenteil
Circuit Diagram Cassette Part


CASSETTE AMP PCB
FROM CASS.DECK PLAY HEAD
CN801
L
R
PLAY HEAD
FROM CASS.DECK
CN802
R/P HEAD
CN804
FROM CASS.DECK
E/HEAD
TO FRONT PCB
CN803
CN811
TO MAIN PCB
CN809
TO CD PCB
IC801 TA7784P HEAD AMP
IC802 BA3312N R/P AMP & ALC
R/P MUTE x 2
O/P MUTE x 2
BIAS SWITCHING x 4
BEAT SWITCHING x 2
T801 BIAS OSC COIL
Q820 2SC2001L OSC
Q815 DTC114TS ALC MUTE
Q819 2SA733P,Q MUTE SWITCHING
HI-SP NF SWITCHING x 2
CD DUBBING SWITCHING x 2
CrO2 R/P SWITCHING x 2
HI-SP SWITCHING x 3
CN806
FROM DECK PCB
P13
TO MAIN PCB
CN810
FROM FRONT PCB
S802 HI-SPEED SW.

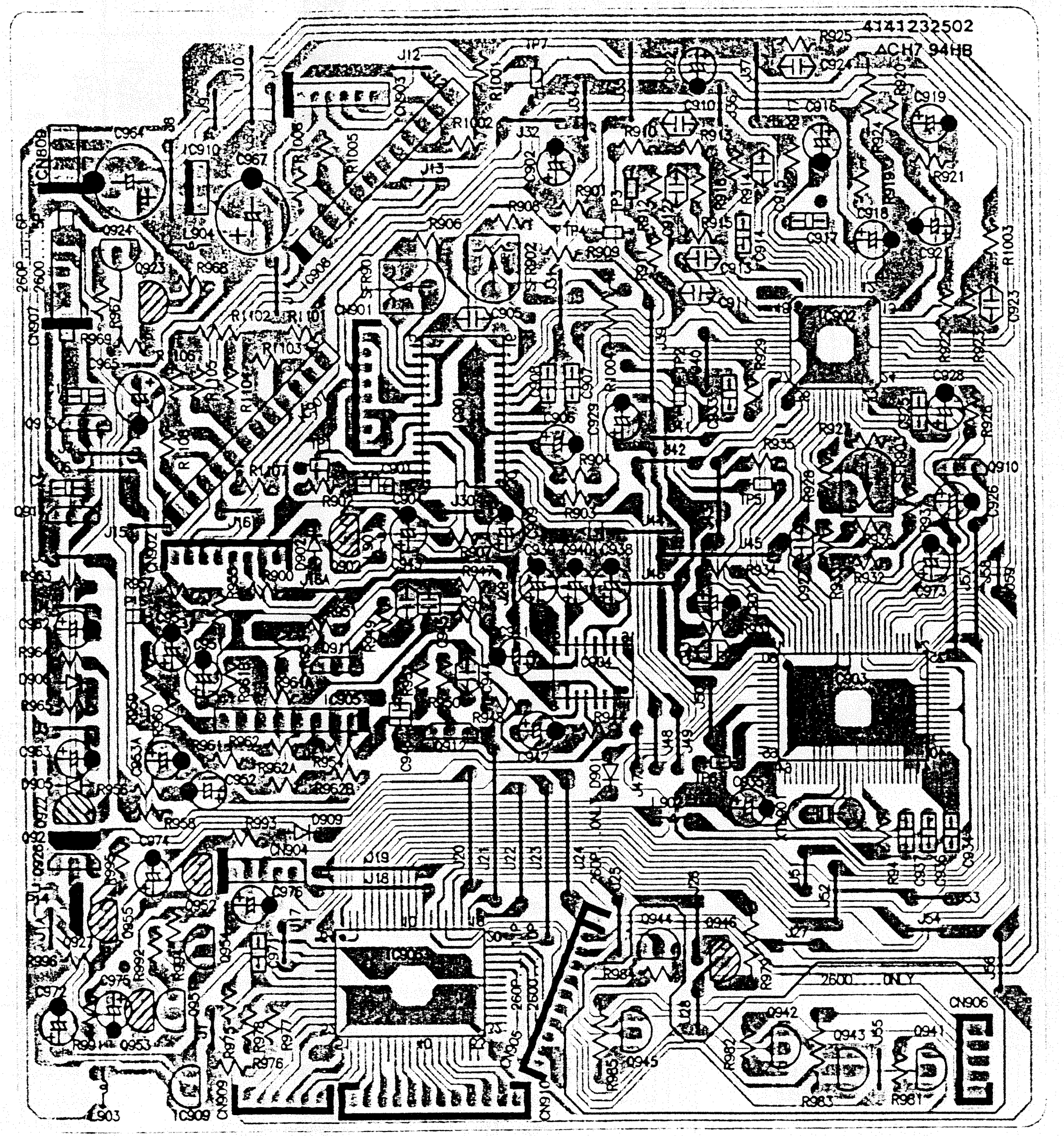
SCHEMATIC NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHMS MIN).
3. RESISTANCE VALUES ARE IN OHMS (K-1000, M-MEGOHM).
4. UNLESS OTHERWISE NOTED. ALL RESISTORS ARE 1/6 WATT CARBON FILM, ±5% TOLERANCE.
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6. ⏚ =COMMON GROUND SYMBOL.
7. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE : CONNECTOR A CONNECTS TO CONNECTOR A).
8. T=MULTI-LAYER CERAMIC CAPACITOR.
9. ——— =INDICATES SIGNAL PATH OF CIRCUIT.
10. – – – =INDICATES SIGNAL PATH OF RECORDING.

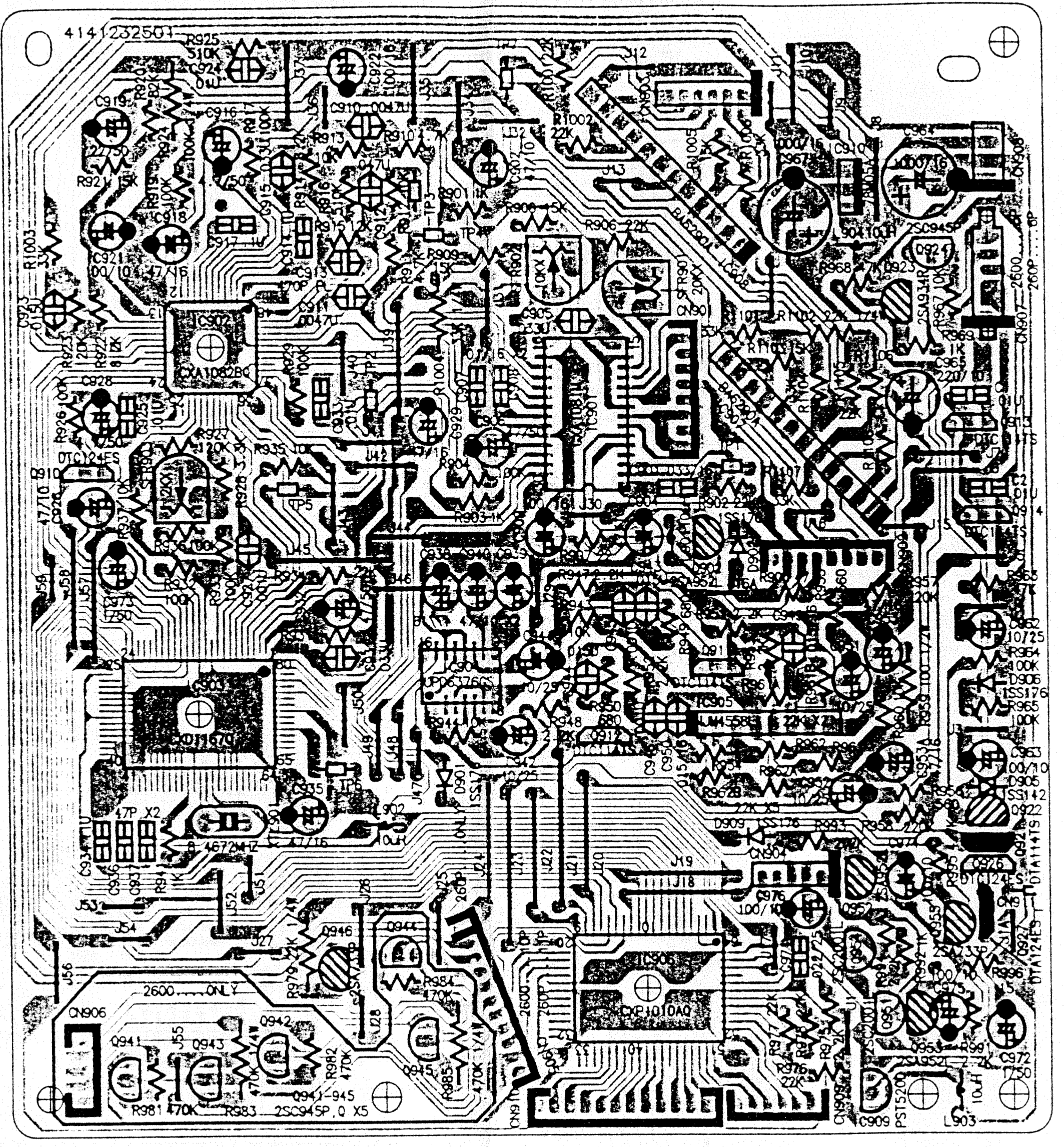
*ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTOR DEVICES ARE ELECTROSTATICALLY SENSITIVE

Platinenabbildungen CD-Teil
Layout of the CD PCBs

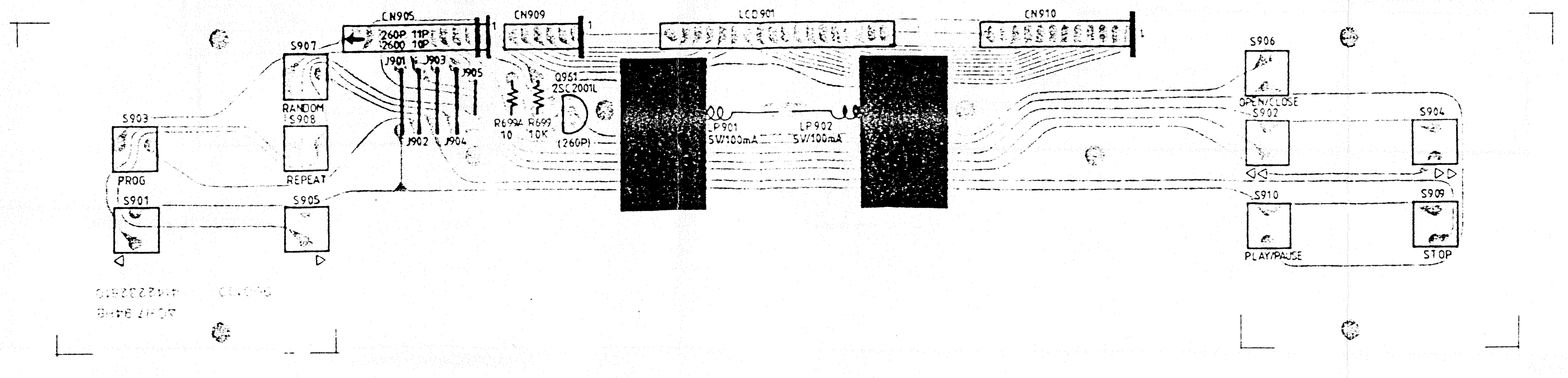
CD-Platte Bestückungsseite
CD PCB Component side


4141232502
ACH7 94HB
J12
J13
TP7
R925
C924
C919
R921
C910
C967
C916
C918
R906
R901
R909
TP4
TP5
R1003
C923
C905
C928
C910
J42
J45
J30
J15
J16
R900
C904
R963
R962A
C909
J18
J19
J20
J21
J22
J23
J24
J52
J53
J54
J55
J56
J57
C944
C946
C942
C941
C943
C945
R982
R983
R981
R984
CN906
CN910
IC909
L903
2600......ONLY
260P
2600

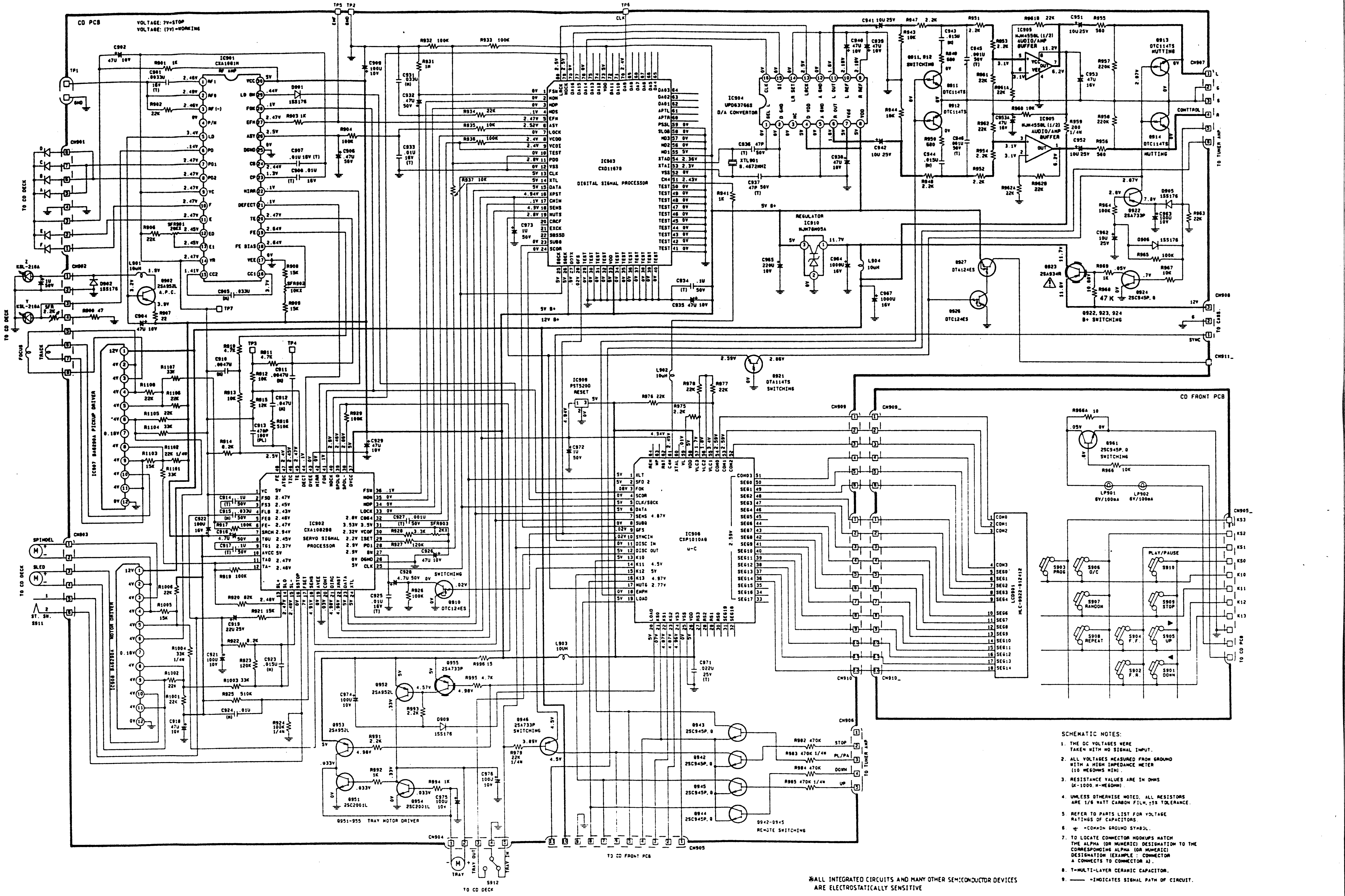
CD-Platte Lötseite
CD PCB Solder side


4141232501
R925
510K
C924
C919
C916
C918
R921
R906
22K
R1002
22K
C910
C967
TP4
TP5
CXA1082BQ
C928
J42
J45
J30
R903
C909
J18
J19
J53
J54
J56
Q944
Q946
Q942
Q941
Q943
Q945
R982
470K
R984
470K
R981
470K
R983
Q941~945
2SC945P, 0 X5
CN906
CN910
CXP1010AQ
2600......ONLY
L903
C909
2SC945P

CD-Bedienplatte Lötseite
CD Operating PCB Solder side


CN905
260P 11P
2600 10P
CN909
LCD901
CN910
1
1
1
S907
RANDOM
S908
REPEAT
S903
PROG
S901
S905
◁
▷
J901
J903
J905
J902
J904
Q951
2SC2001L
R699A
10
R699
10K
(260P)
LP901
5V/100mA
LP902
5V/100mA
S906
OPEN/CLOSE
S902
S904
◁◁
▷▷
S910
S909
PLAY/PAUSE
STOP

Schaltplan CD-Teil
Circuit Diagram CD Part


CD PCB
VOLTAGE: 7V=STOP
VOLTAGE: (7V)=WORKING
IC901 CXA1081M RF AMP
IC902 CXA1082BS SERVO SIGNAL PROCESSOR
IC903 CXD1167Q DIGITAL SIGNAL PROCESSOR
IC904 UPD6376GS D/A CONVERTOR
IC905 NJM4558L (1/2) AUDIO/AMP BUFFER
IC906 CXP1010A8 u-C
IC907 BA6290A PICKUP DRIVER
IC908 BA6290A MOTOR DRIVER
IC909 PST5200 RESET
REGULATOR IC910 NJM78M05A
Q911, 912 SWITCHING
Q913 DTC114TS MUTTING
Q914 DTC114TS MUTTING
Q921 DTA114TS SWITCHING
Q922, 923, 924 B+ SWITCHING
Q961 2SC945P.Q SWITCHING
Q951-955 TRAY MOTOR DRIVER
Q942-Q945 REMOTE SWITCHING
CD FRONT PCB
LCD901
TO CD DECK
TO TUNER AMP
CONTROL
SPINDEL
SLED
ST. SW. S911
FOCUS
TRACK
TRAY
TRAY OUT
TRAY IN
S912
TO CD DECK
STOP
PL/PA
DOWN
UP
S901 DOWN
S902 F.R.
S903 PROG
S904 F.F.
S905 UP
S906 O/C
S907 RANDOM
S908 REPEAT
S909 STOP
S910 PLAY/PAUSE
LP901 6V/100mA
LP902 6V/100mA
TO CD PCB
TO CD FRONT PCB
CH901
CH902
CH903
CH904
CH905
CH906
CH908
CH909
CH910
CH911

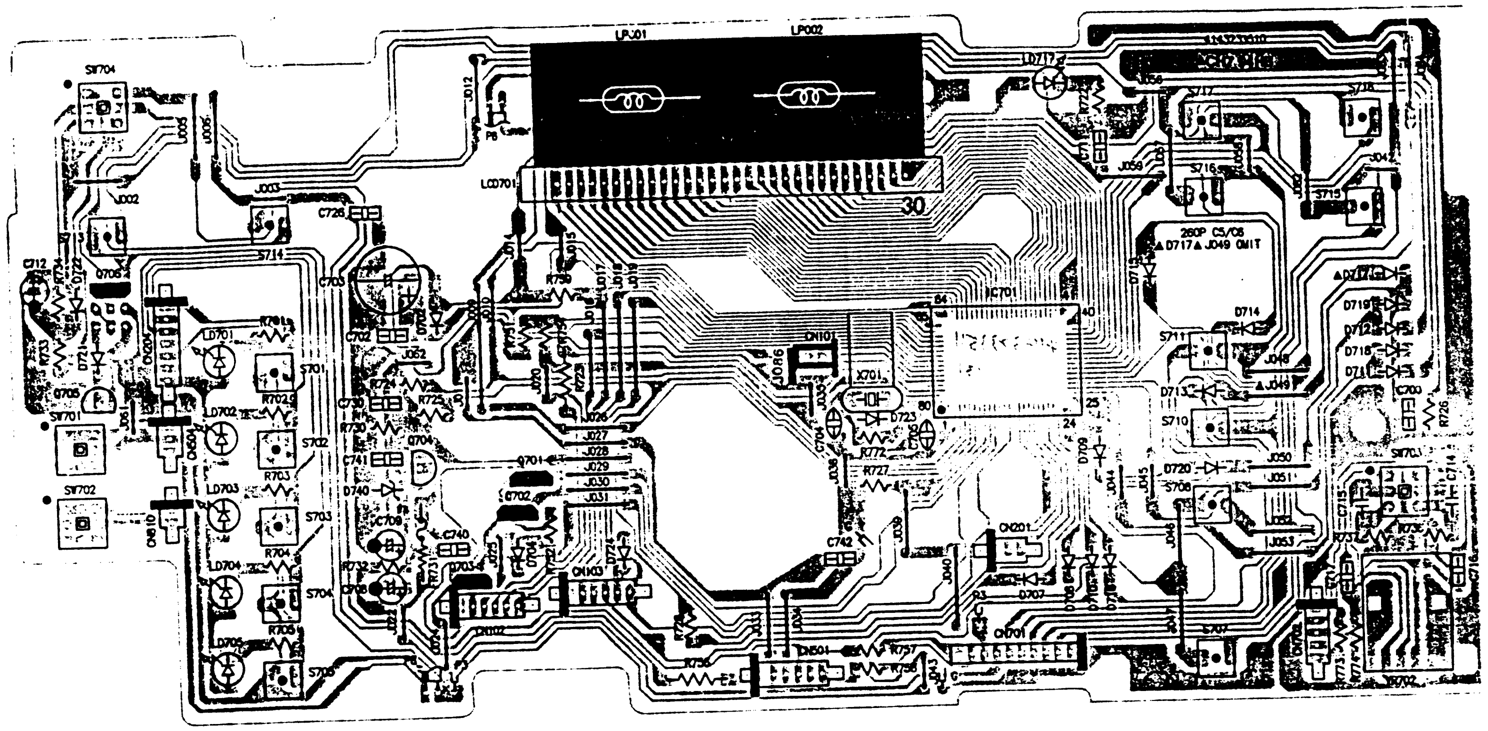
SCHEMATIC NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHMS MIN).
3. RESISTANCE VALUES ARE IN OHMS (K-1000, M-MEGOHM).
4. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/6 WATT CARBON FILM, ±5% TOLERANCE.
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6. ⏚ =COMMON GROUND SYMBOL.
7. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE : CONNECTOR A CONNECTS TO CONNECTOR A).
8. T=MULTI-LAYER CERAMIC CAPACITOR.
9. ——— =INDICATES SIGNAL PATH OF CIRCUIT.

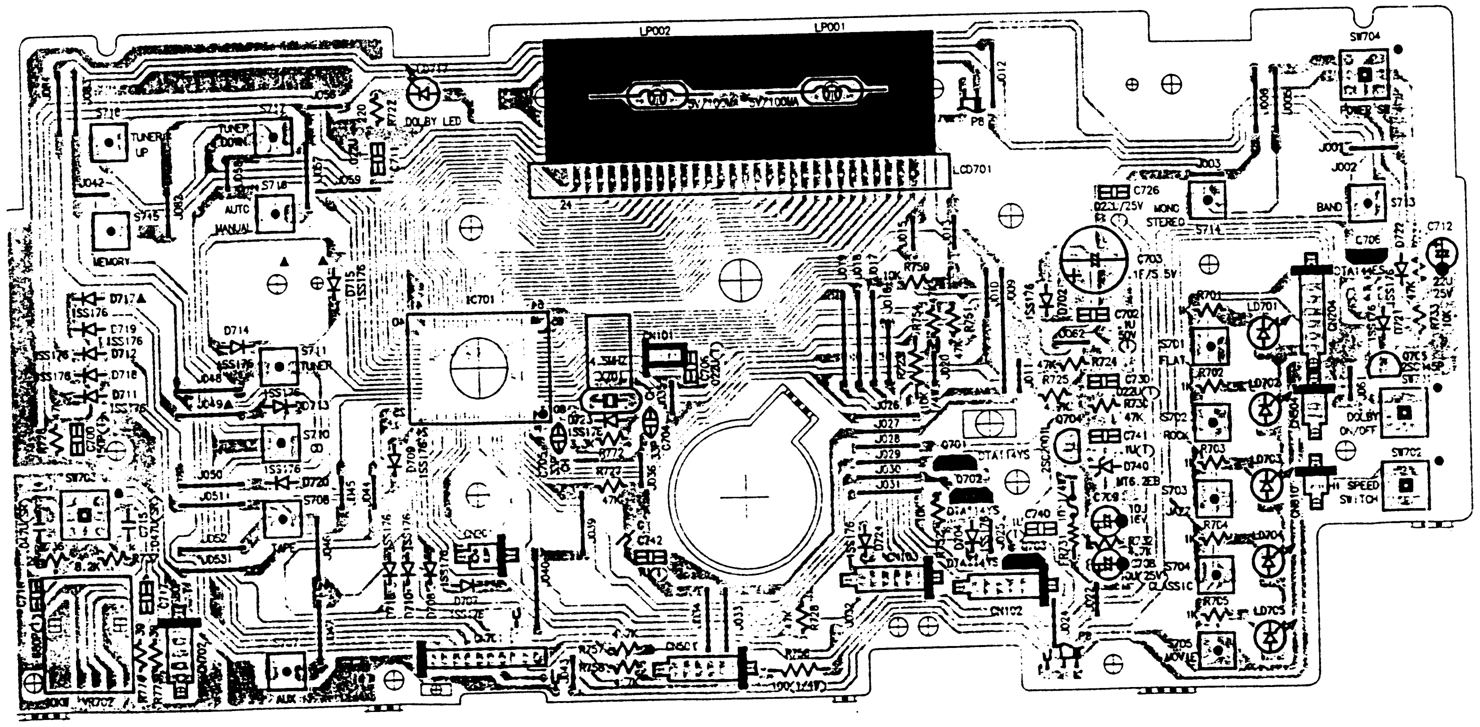
*ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTOR DEVICES ARE ELECTROSTATICALLY SENSITIVE

Platinenabbildungen Bedienteil
Layout of the Operating PCBs

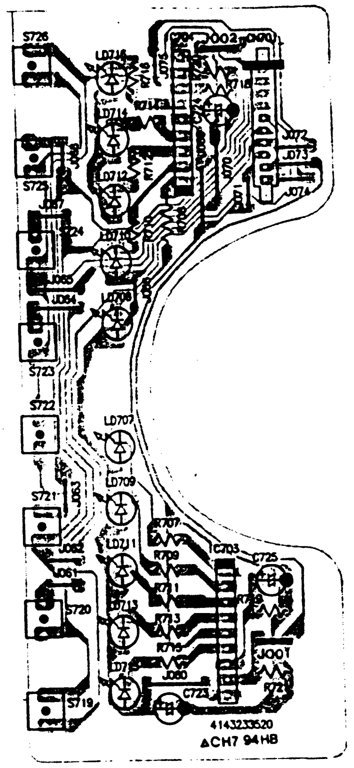
Bedienplatte Rundfunkteil / Verstärker Bestückungsseite
Operating PCB Tuner / Amplifier Component side



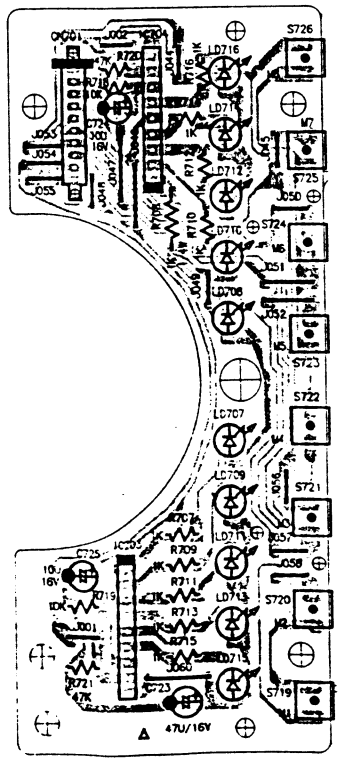
Bedienplatte Rundfunkteil / Verstärker Lötseite
Operating PCB Tuner / Amplifier Solder side



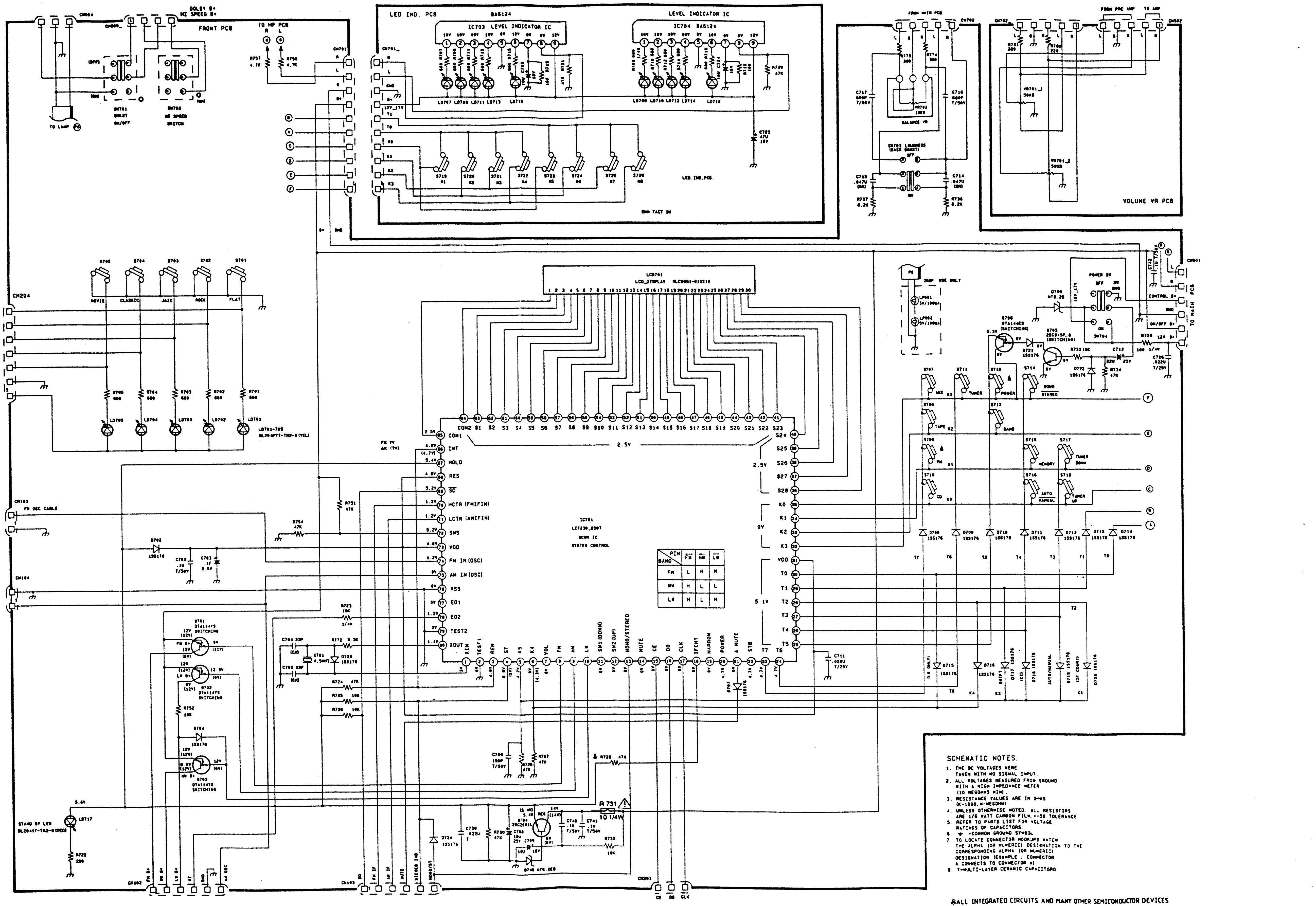
LED-Platte Bestückungsseite
LED PCB Component side



LED-Platte Lötseite
LED PCB Solder side



Schaltplan Bedienteil
Circuit Diagram Operating Part


DOLBY B+
HI SPEED B+
FRONT PCB
TO HP PCB
R L
SW701 DOLBY ON/OFF
SW702 HI SPEED SWITCH
TO LAMP
LED IND. PCB
BA6124
IC703 LEVEL INDICATOR IC
LEVEL INDICATOR IC
IC704 BA6124
LED.IND.PCB.
SW TACT SW
BALANCE VR
SW703 LOUDNESS (BASS BOOST)
VOLUME VR PCB
FROM MAIN PCB
FROM PRE AMP
TO AMP
CH204
MOVIE
CLASSIC
JAZZ
ROCK
FLAT
LCD701
LCD_DISPLAY
IC701
LC7230_8307
uCOM IC
SYSTEM CONTROL
COM1
INT
HOLD
RES
SD
HCTR (FM)(FIN)
LCTR (AM)(FIN)
SNS
VDD
FM IN (OSC)
AM IN (OSC)
VSS
EO1
EO2
TEST2
XOUT
COM2 S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23
S24
S25
S26
S27
S28
K0
K1
K2
K3
VDD
T0
T1
T2
T3
T4
T5
T6
T7
XIN
TEST1
REM
ST
K5
K4
VOL
FM
MW
LW
SW1 (DOWN)
SW2 (UP)
MONO/STEREO
MUTE
CE
DO
CLK
IFCNT
NARROW
POWER
A MUTE
STB
PIN
BAND
FM
MW
LW
POWER SW
CONTROL B+
ON/OFF B+
TO MAIN PCB
FM OSC CABLE
STAND BY LED
TAPE
TUNER
POWER
MONO STEREO
BAND
MEMORY
TUNER DOWN
AUTO MANUAL
TUNER UP
CD
PH
CE
DO
CLK
R 731
10 1/4W

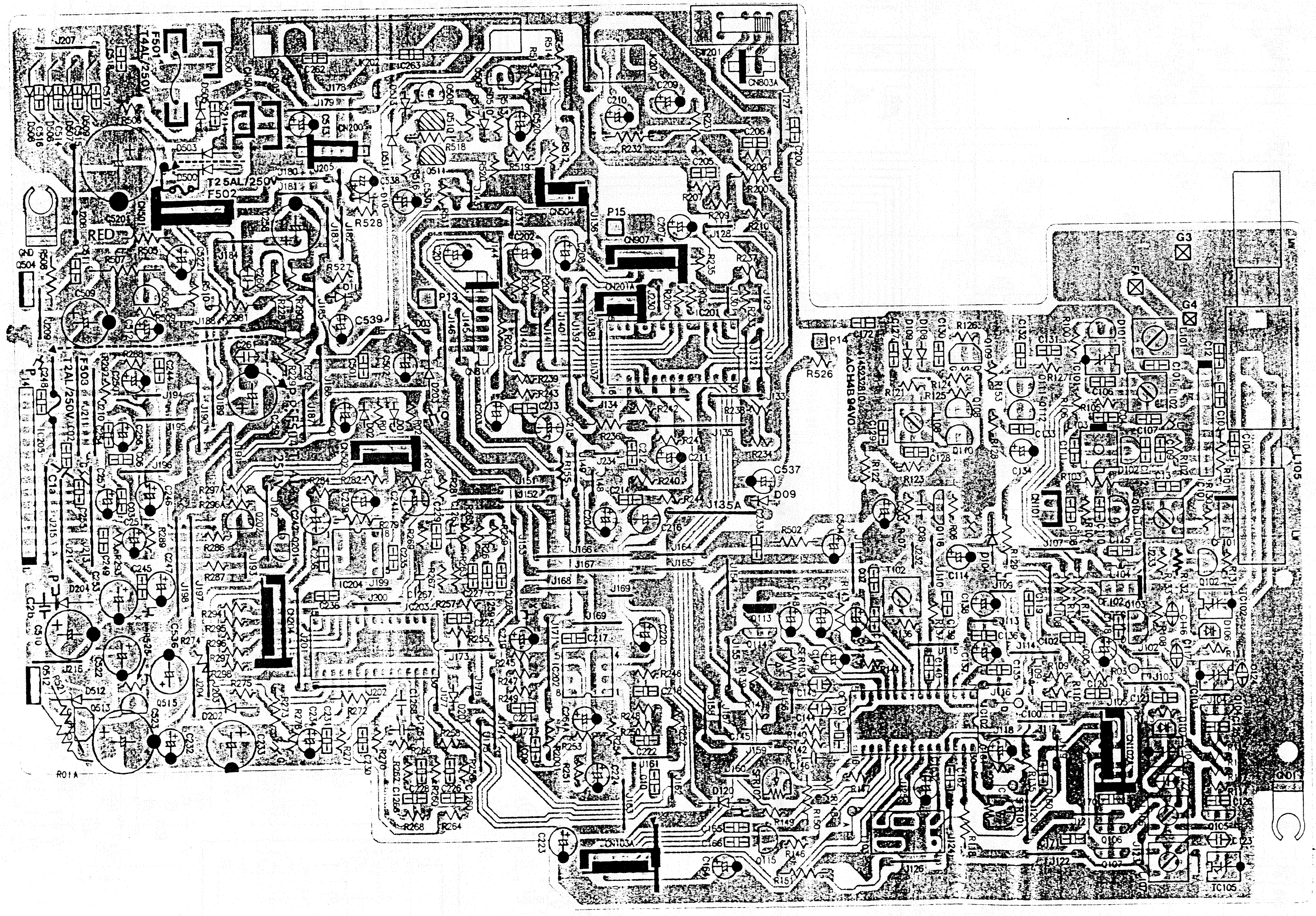
SCHEMATIC NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHMS MIN).
3. RESISTANCE VALUES ARE IN OHMS (K-1000, M-MEGOHM).
4. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/6 WATT CARBON FILM, +-5% TOLERANCE
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6. ⏚ =COMMON GROUND SYMBOL
7. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE : CONNECTOR A CONNECTS TO CONNECTOR A)
8. T=MULTI-LAYER CERAMIC CAPACITORS

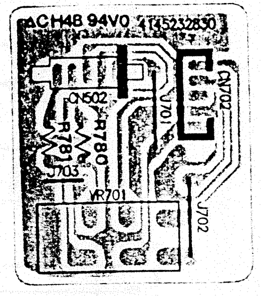
※ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTOR DEVICES ARE ELECTROSTATICALLY SENSITIVE

Platinenabbildungen Rundfunkteil / Verstärker Bestückungsseite
Layout of the Tuner / Amplifier PCBs Component side

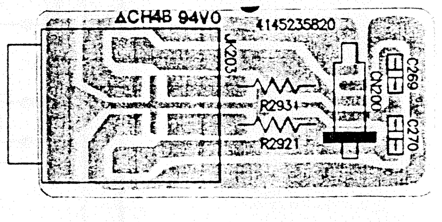
Rundfunkteil / Verstärker-Platte
Tuner / Amplifier PCB



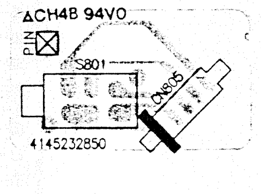
Lautstärkereglerplatte
Volume Control PCB



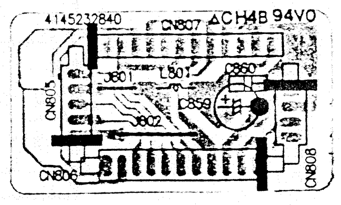
Kopfhörerbuchsenplatte
Headphone Socket PCB


ΔCH4B 94V0
4145235820

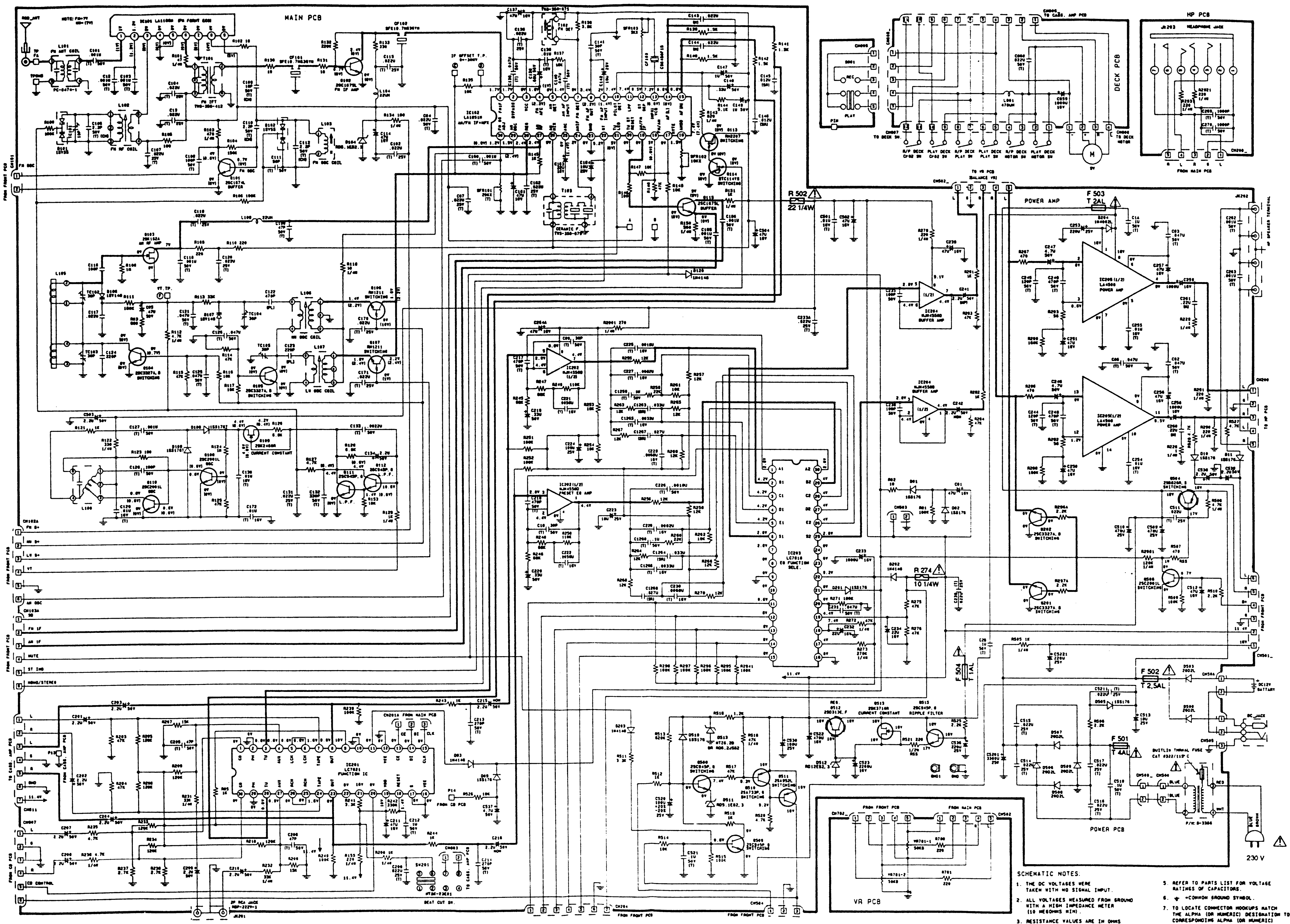
Aufnahme- / Wiedergabeschalterplatte
Record / Playback Switch PCB


ΔCH4B 94V0
S801
4145232850

Cassettendeck-Verbindungsplatte
Cassette Mechanism Connecting PCB


4145232840
CN807
ΔCH4B 94V0

Schaltplan Rundfunk- / Verstärkerteil
Circuit Diagram Tuner / Amplifier Part



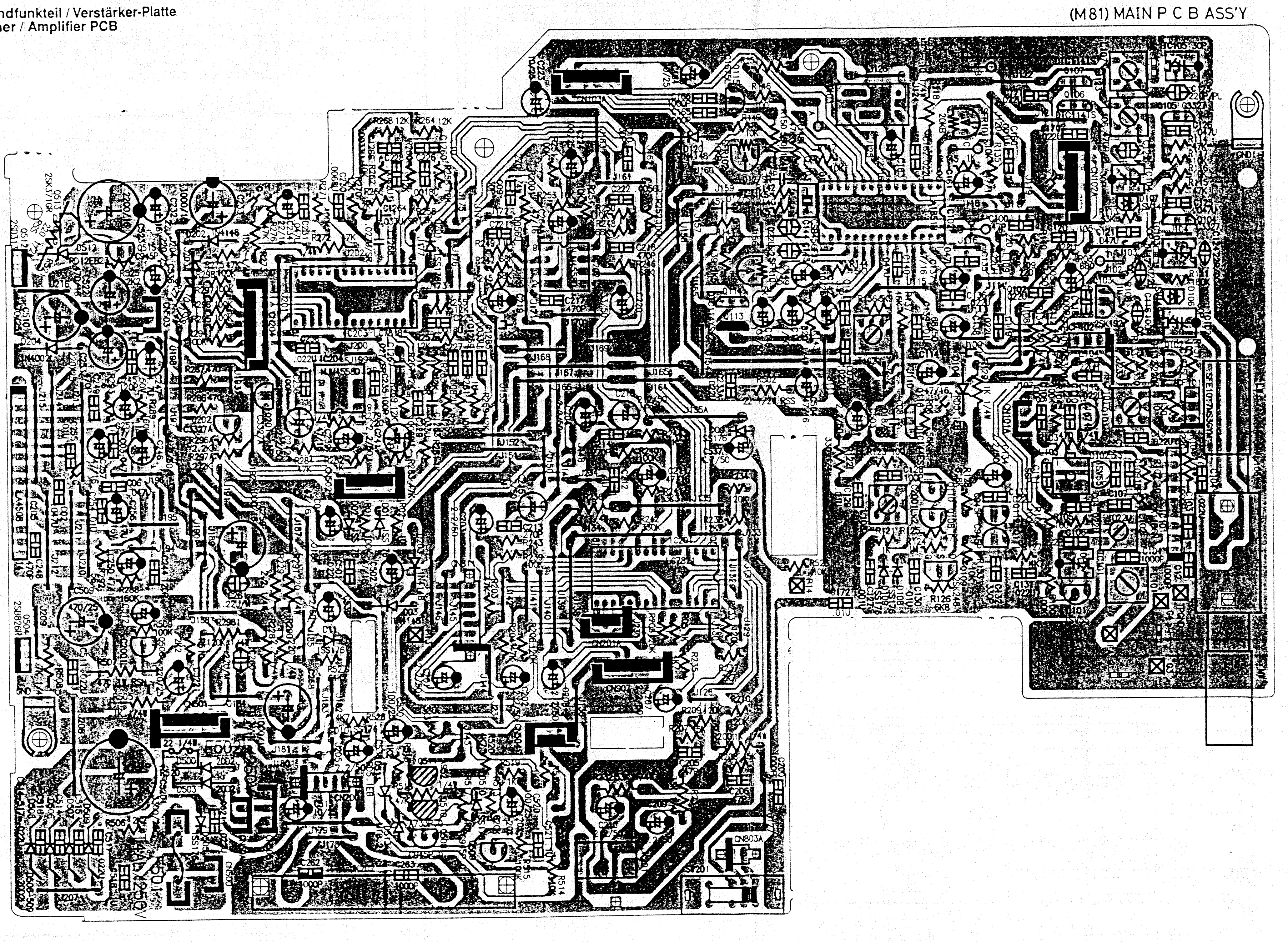
SCHEMATIC NOTES:

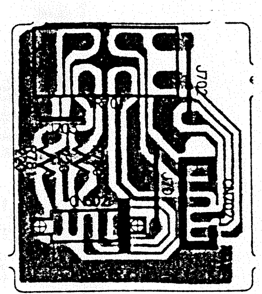
1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHMS MIN).
3. RESISTANCE VALUES ARE IN OHMS (K-1000, M-MEGOHM).
4. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/6 WATT CARBON FILM, ±5% TOLERANCE.
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6. ⏚ =COMMON GROUND SYMBOL.
7. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE : CONNECTOR A CONNECTS TO CONNECTOR A).
8. T=MULTI-LAYER CERAMIC CAPACITOR.
9. ——— =INDICATES SIGNAL PATH OF CIRCUIT.

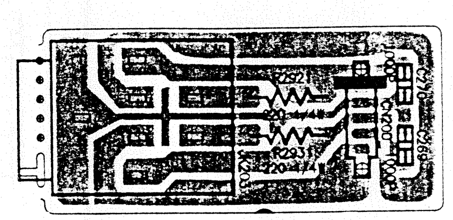
※ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTOR DEVICES ARE ELECTROSTATICALLY SENSITIVE

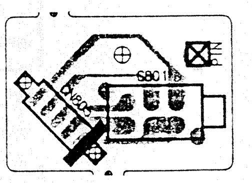
⚠ Critical component - replace with same as shown in Parts List or use equivalent with same characteristics

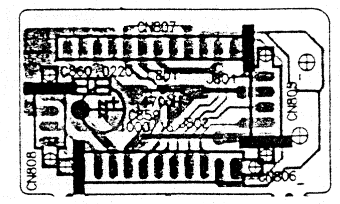
Platinenabbildungen Rundfunkteil / Verstärker Lötseite
Layout of the Tuner / Amplifier PCBs Solder side


Rundfunkteil / Verstärker-Platte
Tuner / Amplifier PCB

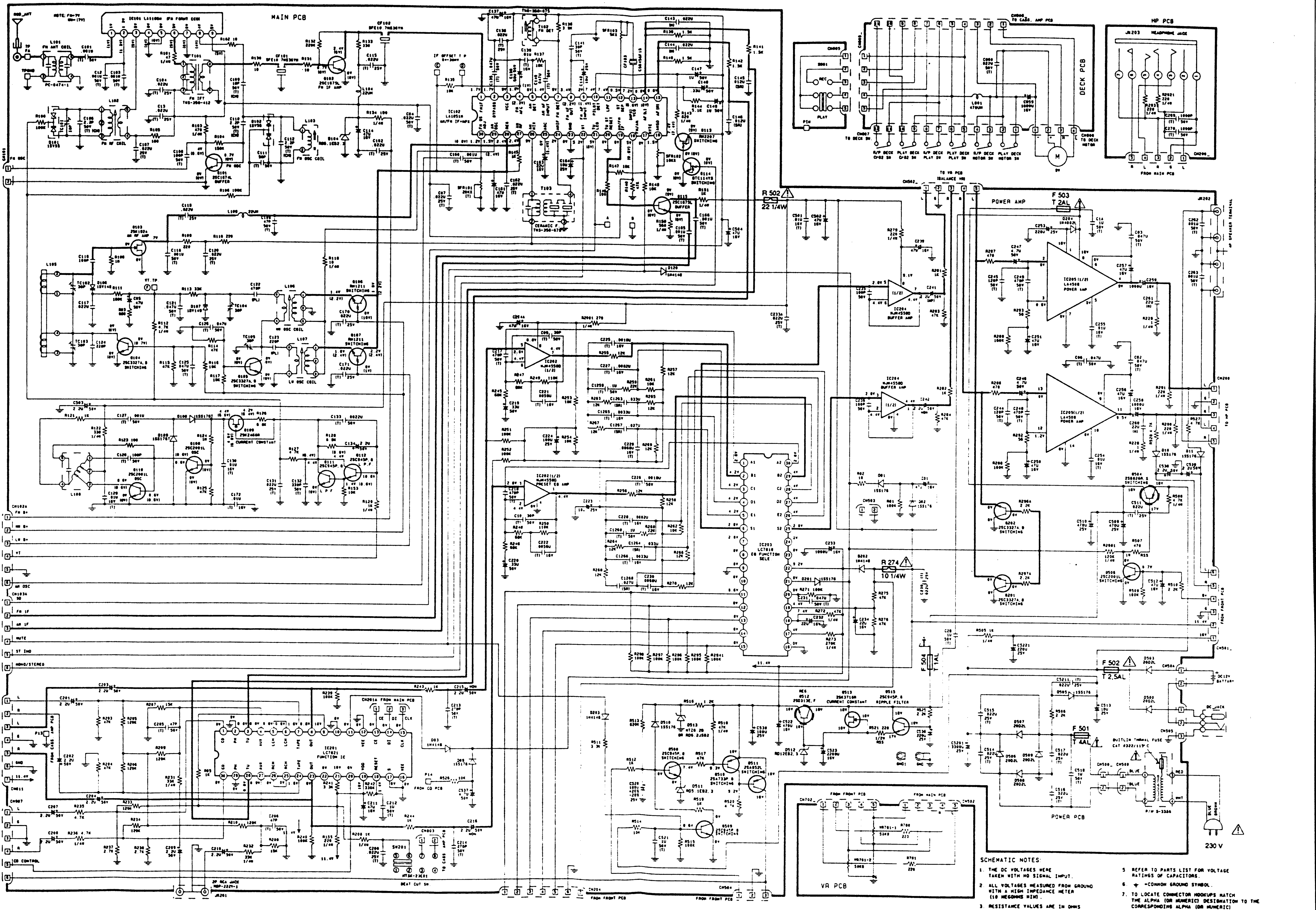

Lautstärkereglerplatte
Volume Control PCB


Kopfhörerbuchsenplatte
Headphone Socket PCB


Aufnahme- / Wiedergabeschalterplatte
Record / Playback Switch PCB


Cassettendeck-Verbindungsplatte
Cassette Mechanism Connecting PCB

Schaltplan Rundfunk- / Verstärkerteil
Circuit Diagram Tuner / Amplifier Part


MAIN PCB
DECK PCB
HP PCB
POWER AMP
VR PCB
POWER PCB
R 502 ⚠
22 1/4W
F 503
T 2AL ⚠
R 274 ⚠
10 1/4W
F 504
T 1AL
F 502 ⚠
T 2,5AL
F 501
T 4AL ⚠
230 V ⚠

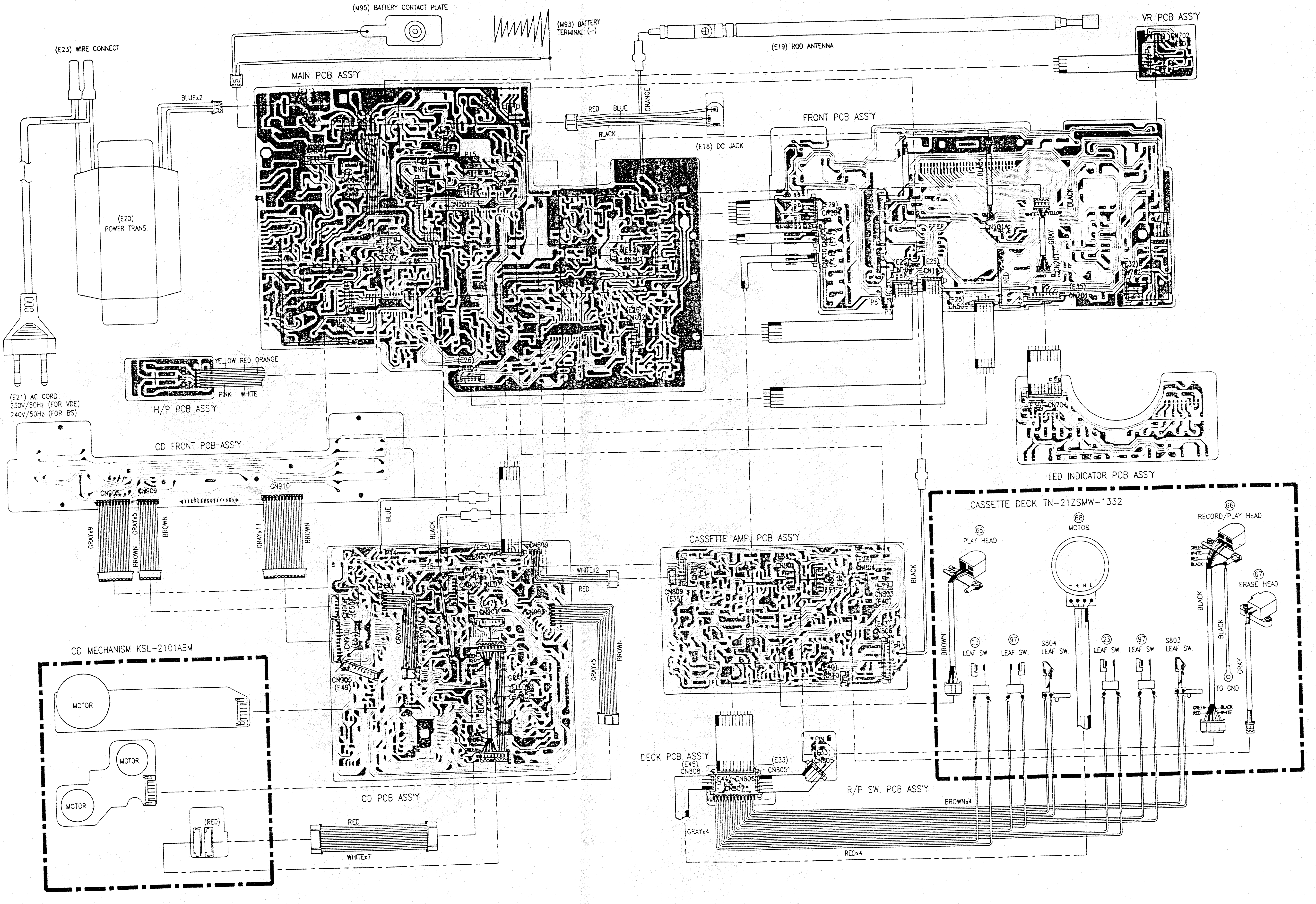
△ Critical component - replace with same as shown in Parts List or use equivalent with same characteristics

※ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTOR DEVICES ARE ELECTROSTATICALLY SENSITIVE

SCHEMATIC NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHMS MIN).
3. RESISTANCE VALUES ARE IN OHMS (K-1000, M-MEGOHM)
4. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/6 WATT CARBON FILM, ±5% TOLERANCE.
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6. ⏚ =COMMON GROUND SYMBOL.
7. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE : CONNECTOR A CONNECTS TO CONNECTOR A).
8. T=MULTI-LAYER CERAMIC CAPACITOR.
9. —— =INDICATES SIGNAL PATH OF CIRCUIT.

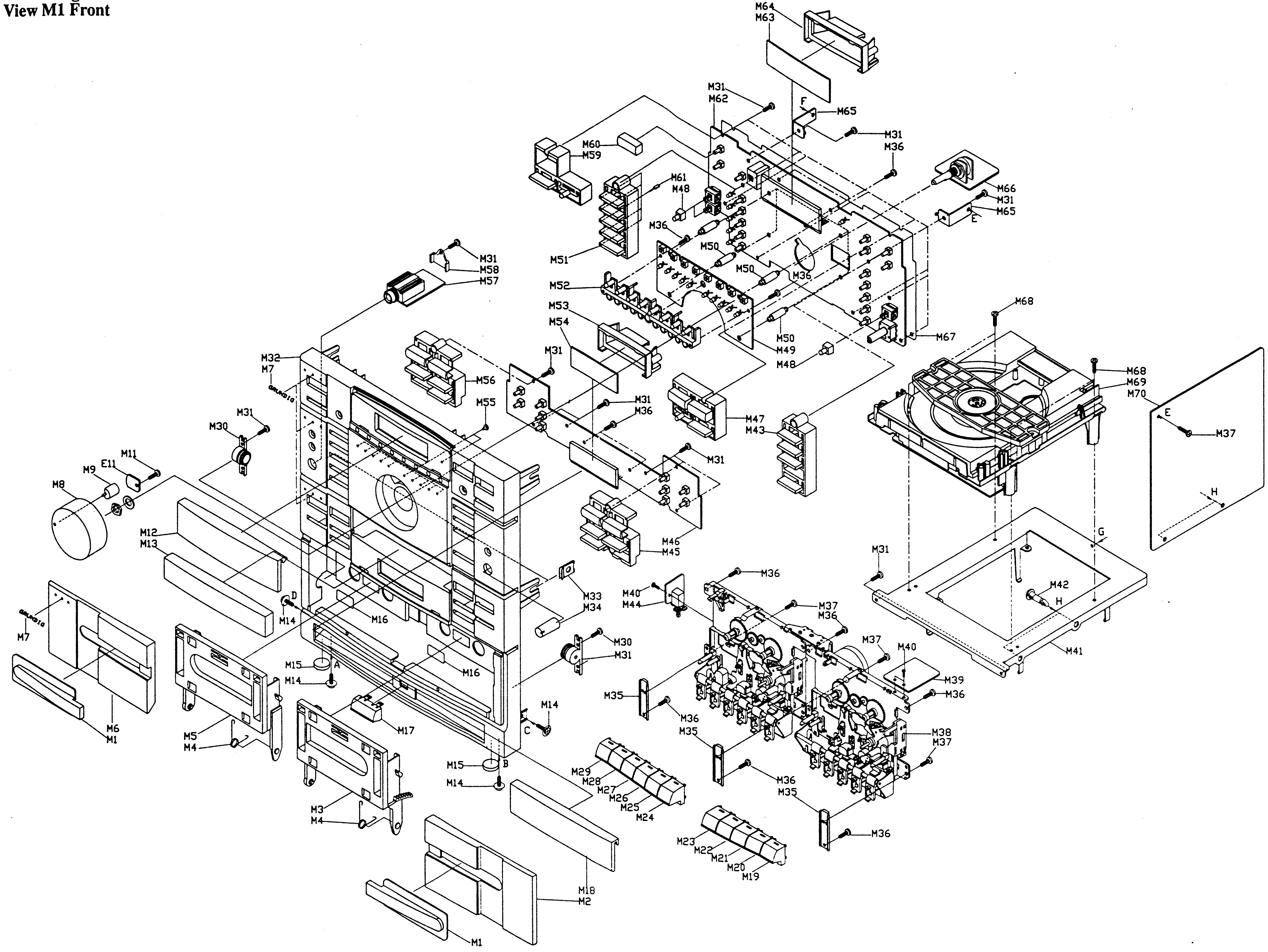
Leiterplattenverbindungen
Wiring Diagram


(M95) BATTERY CONTACT PLATE
(M93) BATTERY TERMINAL (-)
(E23) WIRE CONNECT
BLUEx2
MAIN PCB ASS'Y
(E20) POWER TRANS.
(E21) AC CORD
230V/50Hz (FOR VDE)
240V/50Hz (FOR BS)
RED
BLUE
ORANGE
BLACK
(E18) DC JACK
(E19) ROD ANTENNA
VR PCB ASS'Y
FRONT PCB ASS'Y
YELLOW
RED
ORANGE
PINK
WHITE
H/P PCB ASS'Y
CD FRONT PCB ASS'Y
CN906
CN909
CN910
GRAYx9
BROWN
GRAYx5
BROWN
GRAYx11
BROWN
LED INDICATOR PCB ASS'Y
CASSETTE DECK TN-21ZSMW-1332
65 PLAY HEAD
68 MOTOR
66 RECORD/PLAY HEAD
67 ERASE HEAD
BLUE
BLACK
WHITEx2
RED
CASSETTE AMP. PCB ASS'Y
BLACK
BROWN
GRAYx5
23 LEAF SW.
97 LEAF SW.
S804 LEAF SW.
23 LEAF SW.
97 LEAF SW.
S803 LEAF SW.
BLACK
BLACK
GRAY
TO GND
CD MECHANISM KSL-2101ABM
MOTOR
MOTOR
MOTOR
(RED)
CD PCB ASS'Y
RED
WHITEx7
DECK PCB ASS'Y
(E45)
CN908
(E33)
CN805
R/P SW. PCB ASS'Y
BROWNx4
GRAYx4
REDx4

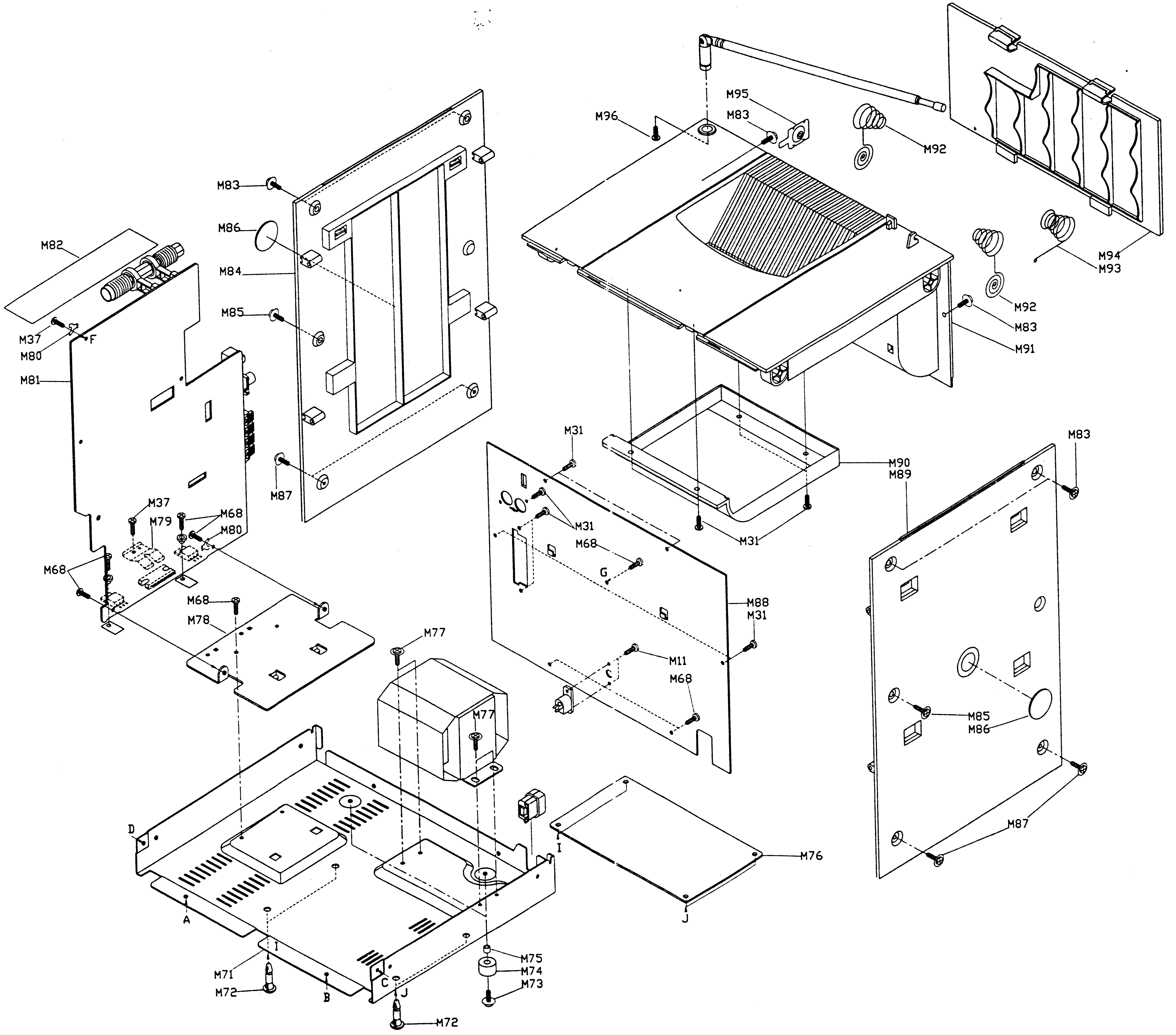
Explosionszeichnungen und Ersatzteilliste
Exploded Views and Spare Parts List

Explosionszeichnung M1 Front
Exploded View M1 Front

1

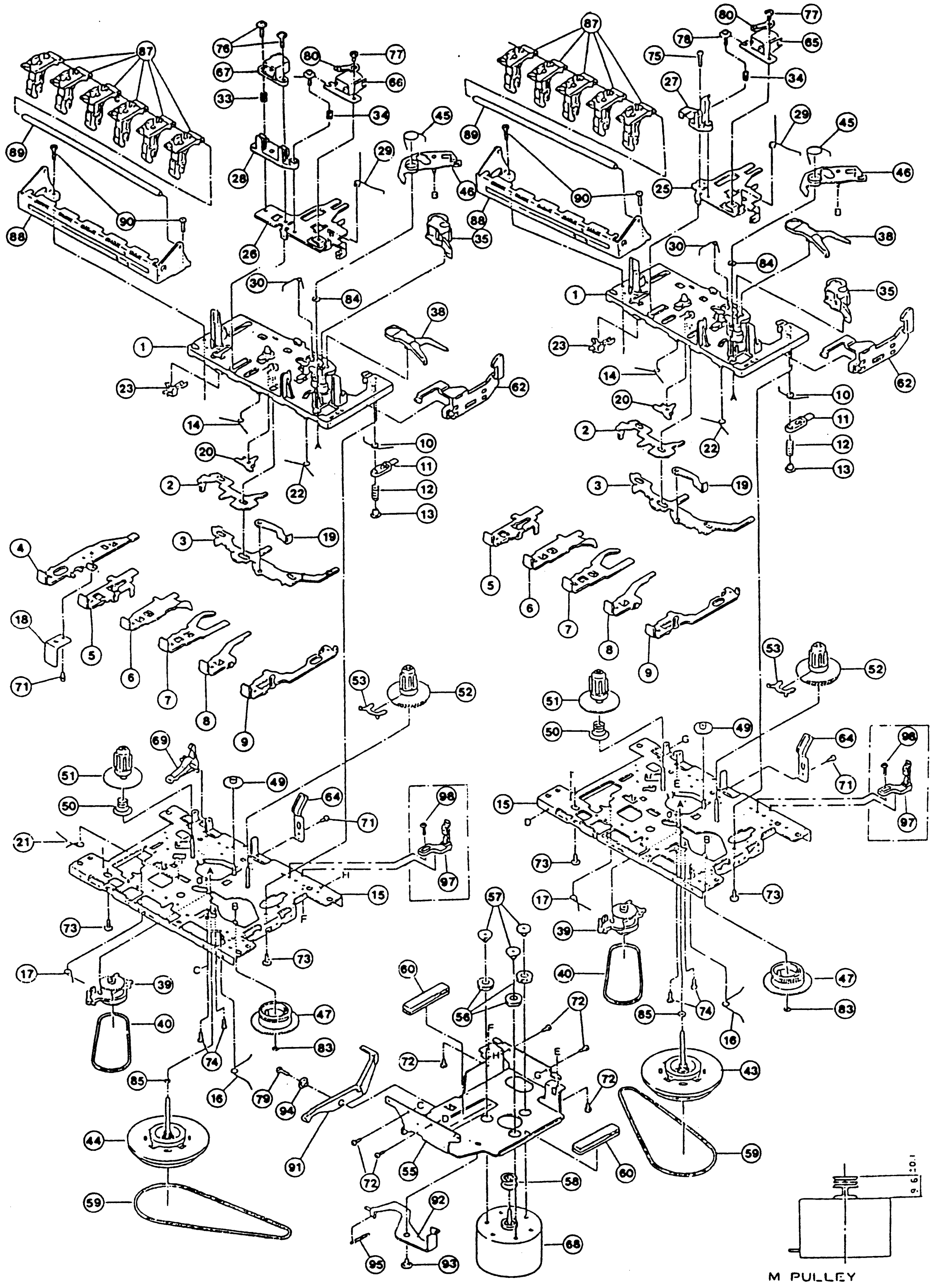

M64
M63
M31
M62
F
M65
M31
M36
M66
M31
M65
E
M60
M59
M61
M48
M36
M50
M50
M36
M51
M52
M53
M54
M31
M58
M57
M68
M67
M50
M49
M48
M32
M7
M56
M55
M31
M36
M47
M43
M68
M69
M70
E
M37
M30
M31
M11
E11
M9
M8
M31
M46
M45
H
G
M31
M12
M13
D
M14
M16
M33
M34
M40
M44
M36
M37
M36
M42
H
M37
M40
M41
M39
M36
M7
M15
A
M14
M16
M30
M31
M35
M36
M35
M14
C
M17
M5
M4
M6
M1
M38
M37
M29
M28
M27
M26
M25
M24
M15
B
M14
M36
M35
M36
M3
M4
M23
M22
M21
M20
M19
M18
M2
M1

Explosionszeichnung M1 Gehäuse
Exploded View M1 Cabinet


M82
M37
M80
F
M81
M83
M86
M84
M85
M87
M37
M79
M68
M80
M68
M68
M78
M77
M77
D
A
I
M71
M72
B
C
J
M72
M75
M74
M73
M96
M95
M83
M92
M94
M93
M92
M83
M91
M31
M31
M68
G
M31
M90
M89
M88
M31
M11
M68
C
M83
M85
M86
M87
I
M76
J

Explosionszeichnung Cassettenlaufwerke TN-21ZMSW-1332
Exploded View Cassette Mechanism TN-21ZMSW-1332

3



GRUNDIG Ersatzteilliste Spare Parts List

HIFI

Ⓓ Btx ✱ 32700 #

1 / 94

M 1

SACH-NR. / PART NO.: 75.4011-1051 BESTELL-NR. / ORDER NO.: G.KD 5251 SCHWARZ/BLACK

POS. NR. POS. NO.	ABB. NR. FIG. NO.	SACHNUMMER PART NUMBER	ANZ. QUA.	BEZEICHNUNG Ⓓ	DESCRIPTION (GB)
M01.000	1	75952-013.34	2	FENSTER, CASSETTENDECKEL	WINDOW, CASS.LID
M02.000	1	75952-013.33		CASSETTENDECKEL B	CASSETTE LID B
M03.000	1	75952-013.74		CASSETTENKLAPPE B	CASS. COMP. LID B
M04.000	1	75952-013.66	2	FEDER, CASSETTENDECKEL	SPRING, CASS.LID
M05.000	1	75952-013.78		CASSETTENKLAPPE A	CASS. COMP. LID A
M06.000	1	75952-015.29		CASSETTENDECKEL A	CASSETTE LID
M07.000	1	75952-013.68	4	GRUNDIG LOGO	GRUNDIG LOGO
M08.000	1	75952-015.24		LAUTSTAERKEKNOPF	VOLUME KNOB
M09.000	1	75952-015.53		LINSE/LAUTSTAERKEKNOPF	LENS/VOLUME KNOB
M12.000	1	75952-013.28		FENSTER, TUNING	WINDOW/TUNING
M13.000	1	75952-013.31		CD-DECKEL	CD-LID
M15.000	1	75952-013.47	2	FUSS, VORNE	FOOT
M16.000	1	75952-013.77	2	REFLECTOR	REFLECTOR
M17.000	1	75952-013.27		CASSETTENKNOPF	CASSETTE KNOB
M18.000	1	75952-013.29		FENSTER, CD	WINDOW, CD
M19.000	1	75952-013.64		TASTE, PAUSE B	KEY, PAUSE B
M20.000	1	75952-013.63		TASTE, STOP B	KEY, STOP B
M21.000	1	75952-013.62		TASTE, VORLAUF B	KEY, VORWARD B
M22.000	1	75952-013.61		TASTE, RUECKLAUF B	KEY, REWIND B
M23.000	1	75952-013.59		TASTE, PLAY B	KEY, PLAY B
M24.000	1	75952-013.58		TASTE, PAUSE A	KEY, PAUSE A
M25.000	1	75952-013.57		TASTE, STOP A	KEY, STOP A
M26.000	1	75952-013.56		TASTE, VORLAUF A	KEY, VORWARD A
M27.000	1	75952-013.54		TASTE, RUECKLAUF A	KEY, REWIND A
M28.000	1	75952-013.53		TASTE, PLAY A	KEY, PLAY A
M29.000	1	75952-013.52		TASTE, RECORD A	KEY, RECORD A
M30.000	1	75952-013.67	2	DAEMPFUNG,CASSETTENDECKEL	DAMPING CASS.LID
M32.000	1	75952-013.73		GEHAEUSEVORDERTEIL	FRONT MASK
M34.000	1	75952-013.26		KNOPF, BALANCE	KNOB BALANCE
M38.000	1	75952-013.60		CASS. LAUFWERK KPL.	CASS.TAPE DRIVE CPL.
M43.000	1	75952-013.42		TASTENSATZ, FUNKTION	KEY SET, FUNCTION
M45.000	1	75952-013.44		TASTENSATZ, CD-PLAYER	KEY SET
M47.000	1	75952-013.22		TUNINGKNOPF	TUNING KNOB
M48.000	1	75952-013.24		TASTE, DOLBY	KEY, DOLBY
M51.000	1	75952-013.43		TASTENSATZ, EQUALIZER	KEY SET
M52.000	1	75952-013.23		DRUCKKNOEPFE	PUSH KNOB
M53.000	1	75952-022.39		HALTER, DISPLAY	HOLDER, DISPLAY
M54.000	1	75952-022.48		FENSTER, DISPLAY	WINDOW, DISPLAY
M55.000	1	75952-015.77		ANZEIGE/PEGEL	DISPLAY-LEVEL
M56.000	1	75952-013.46		TASTENSATZ, CD-SKIP	KEY SET
M59.000	1	75952-013.41		TASTE, BAND	KEY-BAND
M60.000	1	75952-013.39		NETZTASTE	POWER KEY
M61.000	1	75952-022.07		EQUALIZER, LINSE	EQUALIZER-LENS
M63.000	1	75952-022.67		FENSTER, DISPLAY	WINDOW, DISPLAY
M64.000	1	75952-022.68		LCD-HALTER	LCD-HOLDER
M69.000	1	75952-022.50		CD-LAUFWERK KPL.	CD-TAPE DRIVE CPL.
M74.000	1	75952-013.48	2	GUMMIFUSS, HINTEN	FOOT, RUBBER
M84.000	2	75952-015.05		GEHAEUSESEITENTEIL LINKS	CABINET SIDE LEFT
M89.000	2	75952-015.10		GEHAEUSESEITENTEIL RECHTS	CABINET SIDE RIGHT
M91.000	2	75952-015.44		GEHAEUSEOBERTEIL	CABINET TOP
M92.000	2	75952-013.71	2	BATTERIEFEDER	BATTERY SPRING
M93.000	2	75952-013.72		BATTERIEFEDER (-)	BATTERY SPRING
M94.000	2	75952-013.69		BATTERIEDECKEL	BATTERY LID
M95.000	2	75952-013.30		BATTERIEKONTAKTPLATTE	BATTERY CONTACT PLATE
M97.000		75952-013.38		ANTENNE	ANTENNA (USA); AERIAL (GB
M98.000		75952-013.36		DC-BUCHSE	DC-SOCKET

ÄNDERUNGEN VORBEHALTEN

ALTERATIONS RESERVED

POS. NR. POS. NO.	ABB. NR. FIG. NO.	SACHNUMMER PART NUMBER	ANZ. QUA.	BEZEICHNUNG (D)	DESCRIPTION (GB)
M98.100	⚠	75951-050.39		NETZKABEL	POWER CABLE
M99.000		75952-022.70		LAUTSPRECHERBOX KPL.	SPEAKER BOX ASSY
M99.100		75952-015.71		HALTER, BOX L+R	HOLDER BOX L+R
				CASS. LAUFWERK	**CASS.TAPE DRIVE**
002.000	3	75952-015.78	2	SCHALTHEBEL	SWITCH LEVER
003.000	3	75987-544.49		SPERRKLINKE	CATCH
010.000	3	75987-486.21	2	SCHENKELFEDER	LEG SPRING
011.000	3	75986-626.91	2	HEBEL	LEVER
012.000	3	75986-626.92	2	FEDER	SPRING
013.000	3	75987-522.78	2	SPERRSCHEIBE	LOCKING WASHER
014.000	3	75987-486.22	2	SCHENKELFEDER	LEG SPRING
016.000	3	75987-486.23	2	SCHENKELFEDER	LEG SPRING
017.000	3	75987-486.24	2	SCHENKELFEDER	LEG SPRING
019.000	3	75952-015.82	2	HEBEL	LEVER
021.000	3	75987-486.25		SCHENKELFEDER	LEG SPRING
022.000	3	75987-486.26	2	SCHENKELFEDER	LEG SPRING
023.000	3	75952-013.01	2	SCHALTER, LEAF	SWITCH, LEAF
029.000	3	75952-013.16	2	FEDER	SPRING
030.000	3	75952-013.17	2	FEDER	SPRING
033.000	3	75987-464.08		DRUCKFEDER	PRESSURE SPRING
034.000	3	75987-464.12	2	DRUCKFEDER	PRESSURE SPRING
035.000	3	75952-013.02	2	ANDRUCKROLLE	PINCH ROLLER
038.000	3	75952-013.03	2	FUEHLHEBEL	SENSING LEVER
039.000	3	75952-013.04	2	KUPPLUNG	CLUTCH
040.000	3	75986-486.34	2	RIEMEN/KUPPLUNG	DRIVE BELT
043.000	3	75987-486.28		SCHWUNGRAD KPL.	FLYWHELL
044.000	3	75987-486.29		SCHWUNGRAD KPL.	FLYWHELL
045.000	3	75987-486.30	2	DREHFEDER	TORSION SPRING
047.000	3	75986-626.93	2	ZAHNRAD	GEAR WHEEL
049.000	3	75987-464.38	2	ZAHNRAD	GEAR WHEEL
050.000	3	75952-013.14	2	DRUCKFEDER	PRESSURE SPRING
051.000	3	75987-486.32	2	WICKELTELLER-RUECKLAUF	SPOOL CARRIER-REWIND
052.000	3	75952-013.06	2	WICKELTELLER	SPOOL CARRIER
053.000	3	75987-486.33	2	FUEHLER	SENSOR
056.000	3	75987-436.31	3	MOTORDAEMPFUNG	MOTOR RUBBER
057.000	3	75987-464.49	3	SCHRAUBE	SCREW
059.000	3	75952-013.07	2	RIEMEN	BELT
062.000	3	75952-015.86	2	EJECT-HEBEL	EJECT-LEVER
064.000	3	75952-015.94	2	FLACHFEDER	SPRING
065.000	3	75952-013.08		WIEDERGABE-KOPF	R/P HEAD
066.000	3	75952-013.08		AW-KOPF	R/P HEAD
067.000	3	75952-013.11		LOESCHKOPF	ERASE HEAD
068.000	3	75952-013.10		MOTOR KPL. MIT PULLY	MOTOR
069.000	3	75987-446.06		AUFNAHMESPERRHEBEL	RECORD LOCK LEVER
077.000	3	75986-627.03	2	SCHRAUBE	SCREW
078.000	3	75987-413.58	2	JUSTIERSCHRAUBE	ADJUSTING SCREW
080.000	3	72008-234.65		MASSEFEDER	3B LUG
083.000	3	75986-627.00		UNTERLEGSCHEIBE	WASHER
084.000	3	75952-015.97	2	SCHEIBE 1,45X3,8X0,5	WASHER
087.000	3	75986-627.40		TASTENHEBEL	KEY LEVER
091.000	3	75986-627.01		HEBEL	LEVER
092.000	3	75952-015.95		HEBEL A	LEVER
094.000	3	75986-627.02		ROLLE	ROLLER
095.000	3	75987-436.43		ZUGFEDER	SPRING
097.000	3	75952-013.12		SCHALTER, LEAF	SWITCH, LEAF
		72010-736.80		BEDIENUNGSANLEITUNG	INSTRUCTION MANUAL
		72010-738.60		SERVICE MANUAL	SERVICE MANUAL

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG (D) DESCRIPTION (GB)
C 233	75987-528.16	ELKO 1000M 16V
C 523	75951-022.03	ELKO 2200UF 20% 16V
C 859	75987-528.16	ELKO 1000M 16V
C 964	75987-528.16	ELKO 1000M 16V
C 967	75987-528.16	ELKO 1000M 16V
C 5201	75952-015.13	ELKO 3300UF 25V
CF 101	75952-015.98	CERAMIC FILTER
CF 102	75952-015.98	CERAMIC FILTER
CF 103	75952-015.99	RESONATOR
D 01	75987-428.78	DIODE 1 SS 176
D 02	75987-428.78	DIODE 1 SS 176
D 03	75952-053.12	DIODE 1 N 4148 S/W KEC
D 09-11	75987-428.78	DIODE 1 SS 176
D 101	75987-445.37	DIODE 1 SV 55
D 102	75987-445.37	DIODE 1 SV 55
D 104	75952-015.31	Z DIODE RD 5.1 EB 2
D 106	75952-022.22	DIODE 1 SV 149 B
D 107	75952-022.22	DIODE 1 SV 149 B
D 108	75987-428.78	DIODE 1 SS 176
D 109	75987-428.78	DIODE 1 SS 176
D 120	75952-053.12	DIODE 1 N 4148 S/W KEC
D 201	75987-428.78	DIODE 1 SS 176
D 202	75952-053.12	DIODE 1 N 4148 S/W KEC
D 203	75952-053.12	DIODE 1 N 4148 S/W KEC
D 204	75952-013.86	DIODE 1 N 4002 L
D 500	75952-013.84	DIODE 20 D 2 L
D 503	75952-013.84	DIODE 20 D 2 L
D 505	75987-428.78	DIODE 1 SS 176
D506-509	75987-466.04	DIODE 20 D 2
D 510	75987-428.78	DIODE 1 SS 176
D 511	75952-015.31	Z DIODE RD 5.1 EB 2
D 512	75952-015.33	Z DIODE RD 10 EB 2
D 513	75952-015.59	Z DIODE MTZ 6,2 B
D 700	75952-015.68	Z DIODE RD 8,2 JSB 2 T
D 702	75987-428.78	DIODE 1 SS 176
D 704	75987-428.78	DIODE 1 SS 176
D707-716	75987-428.78	DIODE 1 SS 176
D718-724	75987-428.78	DIODE 1 SS 176
D 740	75986-050.00	DIODE MTZ 6,8 B
D801-809	75987-428.78	DIODE 1 SS 176
D 810	75952-053.12	DIODE 1 N 4148 S/W KEC
D 812	75952-053.12	DIODE 1 N 4148 S/W KEC
D 813	75952-053.12	DIODE 1 N 4148 S/W KEC
D814-818	75987-428.78	DIODE 1 SS 176
D 820	75987-428.78	DIODE 1 SS 176
D 901	75987-428.78	DIODE 1 SS 176
D 902	75987-428.78	DIODE 1 SS 176
D 905	75987-428.78	DIODE 1 SS 176
D 906	75987-428.78	DIODE 1 SS 176
D 909	75987-428.78	DIODE 1 SS 176
E 026 ⚠	75952-015.26	TRAFO
F 501 ⚠	8315-623-043	SICHERUNG 4 A/T 250VAC UL
F 502 ⚠	75952-053.14	SICHERUNG 250V 2.5A
F 503 ⚠	75983-661.00	SICHERUNG T2A/250V
F 504 ⚠	75983-660.00	SICHERUNG T1A/250V
FR731 ⚠	75952-015.49	SI.-WIDERST.10 OHM 1/4W
IC 101	75987-456.62	IC LA 1186 N
IC 102	75951-018.62	IC LA 1851 N
IC 201	8305-262-821	IC LC 7821 SANYO

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG (D) DESCRIPTION (GB)
IC 202	75952-013.81	IC NJM 4558 DX
IC 203	75986-626.33	IC LC 7818
IC 204	75952-013.81	IC NJM 4558 DX
IC 205	75952-013.79	IC LA 4508
IC 701	75952-015.41	IC LC 7230-8307
IC 703	75952-015.64	IC BA 6124
IC 704	75952-015.64	IC BA 6124
IC 801	8305-407-784	IC TA 7784 P
IC 802	75950-504.01	IC BA 3312 N
IC 901	75952-023.01	IC CXA 1081 M
IC 902	75952-015.69	IC CXA 1082 BQ
IC 903	75987-589.59	IC CXD 1167 Q
IC 904	75987-593.31	IC UPD 6376 GS
IC 905	75952-015.74	IC NJM 4558 L
IC 906	75952-022.72	IC CXP 1010 AQ
IC 907	75952-015.76	IC BA 6290 A
IC 908	75952-015.76	IC BA 6290 A
IC 909	75987-428.95	IC PST 520 D
IC 910	75952-015.73	IC NJM 78 M 05 A
JK 201	75952-015.02	BUCHSE, RCA
JK 202	75952-015.01	LAUTSPRECHERTERMINAL
JK 203	75952-015.37	BUCHSE, KOPFHOERER
L 101	75952-013.87	FM ANTENNENSPULE
L 102	75952-013.88	FM/RF SPULE
L 103	75952-013.89	FM-OSZILLATORSPULE
L 104	75952-013.92	SPULE 22UH
L 105	75952-013.82	LW/MW-ANTENNE
L 106	75952-013.94	MW OSCILLATORSPULE
L 107	75952-013.96	LW OSCILLATORSPULE
L 108	75952-013.97	AC-OSCILLATORSPULE
L 109	75952-013.83	SPULE 22UH
L 801	75952-015.32	SPULE 2,2MH
L 901	75952-015.96	SPULE 10UH
L 904	75952-015.81	SPULE 10UH
LCD 701	75952-015.46	LCD-DISPLAY / TUNER
LCD 901	75952-022.08	LCD-DISPLAY / CD
LD701-705		75952-015.62 LE DIODE 204
PYT TR 2-9		
LD707-716		75952-015.66 LE DIODE 204
PYT TR 2-11		
LD 717	75952-015.61	LE DIODE 204 IT TR 2-9
LP 001	75952-015.48	LAMPE 5V/100MA
LP 002	75952-015.48	LAMPE 5V/100MA
LP 901	75952-015.48	LAMPE 5V/100MA
LP 902	75952-015.48	LAMPE 5V/100MA
Q 101	75952-015.16	TRANS.2 SC 1675 L
Q 102	75972-505.00	TRANS.2 SC 1675 L
Q 103	75952-015.03	TRANS.2 SK 192 A, FET
Q 104	75952-022.41	TRANS.2 SC 3327 A,B
Q 105	75952-022.41	TRANS.2 SC 3327 A,B
Q 106	75952-015.18	TRANS.RN 1211
Q 107	75952-015.18	TRANS.RN 1211
Q 108	75952-015.22	TRANS.2 SC 2001 L
Q 109	75952-015.06	TRANS.2 SK 246 GR, FET
Q 110	75952-015.22	TRANS.2 SC 2001 L
Q 111	75987-050.00	TRANS.2 SC 945 P
Q 112	75987-050.00	TRANS.2 SC 945 P
Q 113	75952-015.21	TRANS.RN 2207
Q 114	75950-016.11	TRANS.DTC 114 YS

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG (D) DESCRIPTION (GB)
Q 115	75972-505.00	TRANS.2 SC 1675 L
Q 201	75952-015.18	TRANS.RN 1211
Q 202	75952-015.18	TRANS.RN 1211
Q 504	75952-015.09	TRANS.2 SB 826 R,S
Q 506	75952-015.22	TRANS.2 SC 2001 L
Q 508	75987-050.00	TRANS.2 SC 945 P
Q 509	75987-050.00	TRANS.2 SC 945 P
Q 510	75952-015.09	TRANS.2 SB 826 R,S
Q 511	75987-522.21	TRANS.2 SA 952 L
Q 512	75952-015.08	TRANS.2 SD 313 E, F
Q 513	75952-015.07	TRANS.2 SK 371 GR, FET
Q 515	75987-050.00	TRANS.2 SC 945 P
Q 701-703	75952-015.21	TRANS.RN 2207
Q 704	75952-015.22	TRANS.2 SC 2001 L
Q 705	75987-050.00	TRANS.2 SC 945 P
Q 706	75952-015.51	TRANS.RN 2204
Q 707	75952-015.54	TRANS.DTA 124 ES
Q 708	75952-015.89	TRANS.DTC 114 TS
Q 801-806	75987-050.00	TRANS.2 SC 945 P
Q 807	75952-053.61	TRANS.DTA 114 ES
Q 809-812	75952-015.89	TRANS.DTC 114 TS
Q 815	75952-015.89	TRANS.DTC 114 TS
Q 819	75982-502.00	TRANS.2 SA 733 (P)
Q 820	75952-015.22	TRANS.2 SC 2001 L
Q 821	75987-050.00	TRANS.2 SC 945 P
Q 822	75982-502.00	TRANS.2 SA 733 (P)
Q 823	75987-050.00	TRANS.2 SC 945 P
Q 824-826	75982-502.00	TRANS.2 SA 733 (P)
Q 827	75952-015.89	TRANS.DTC 114 TS
Q 828	75982-502.00	TRANS.2 SA 733 (P)
Q 829	75952-015.91	TRANS.DTC 124 ES
Q 830	75987-050.00	TRANS.2 SC 945 P
Q 831	75952-015.89	TRANS.DTC 114 TS
Q 832	75952-015.89	TRANS.DTC 114 TS
Q 902	75987-522.21	TRANS.2 SA 952 L
Q 910	75952-015.91	TRANS.DTC 124 ES
Q 911-914	75952-015.89	TRANS.DTC 114 TS
Q 921	75952-015.92	TRANS.DTA 114 TS
Q 922	75982-502.00	TRANS.2 SA 733 (P)
Q 923	75952-015.87	TRANS.2 SA 934 R
Q 924	75987-050.00	TRANS.2 SC 945 P
Q 926	75952-015.91	TRANS.DTC 124 ES
Q 927	75952-015.54	TRANS.DTA 124 ES
Q 946	75982-502.00	TRANS.2 SA 733 (P)
Q 951	75952-015.22	TRANS.2 SC 2001 L
Q 952	75987-522.21	TRANS.2 SA 952 L
Q 953	75987-522.21	TRANS.2 SA 952 L
Q 954	75952-015.22	TRANS.2 SC 2001 L
Q 955	75982-502.00	TRANS.2 SA 733 (P)
Q 961	75952-015.22	TRANS.2 SC 2001 L
R 274 ⚠	75952-015.11	SI.-WIDERST.10 OHM 1/4W
R 502 ⚠	75952-015.17	SI.-WIDERST.22 OHM 1/4W
R 521 ⚠	75952-015.49	SI.-WIDERST.10 OHM 1/4W
S 701-705	75952-015.63	TAKTSCHALTER
S 707	75952-015.63	TAKTSCHALTER
S 708	75952-015.63	TAKTSCHALTER
S 710	75952-015.63	TAKTSCHALTER
S 711	75952-015.63	TAKTSCHALTER

POS. NR. POS. NO.	SACHNUMMER PART NUMBER	BEZEICHNUNG (D) DESCRIPTION (GB)
S 713-718	75952-015.63	TAKTSCHALTER
S 719-726	75952-015.67	TAKTSCHALTER
S 801	75952-022.12	SCHALTER / PLAY-REC.
S 803	75952-022.73	SCHALTER, LEAF
S 804	75952-022.73	SCHALTER, LEAF
S 901-910	75952-015.63	TAKTSCHALTER
SFR 101	75952-015.12	ESTR.20 KOHM
SFR 102	75952-015.52	ESTR.10 KOHM
SFR 103	75952-015.57	ESTR.5 KOHM
SFR 801	75952-015.57	ESTR.5 KOHM
SFR 901	75952-015.12	ESTR.20 KOHM
SFR 902	75952-015.52	ESTR.10 KOHM
SFR 903	75952-015.28	ESTR.2 KOHM
SW 201	75952-015.04	SCHIEBESCHALTER / BEAT-OUT
SW 701	75952-015.19	DRUCKSCHALTER / DOLBY
SW 702	75952-015.43	DRUCKSCHALTER / HI-SPEED/ LOUDNES/POW. ON
T 101	75952-013.91	FILTER
T 102	75952-022.29	FILTER
T 103	75952-013.93	CERAMIC FILTER
T 801	75952-015.23	OSZILLATORSPULE
TC 101	75952-015.34	TRIMMER 10PF
TC102-105		75952-022.46 TRIMMER
VR 701	75952-015.38	LAUTST.REGLER
VR 702	75952-022.53	BALANCE REGLER
X 701	75952-015.47	QUARZ 4,5 MHZ
XTL 901	75952-015.79	QUARZ 8,4672 MHZ

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Sach-Nummer 72010-800.00, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

⚠

(!)

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010-800.00, as well as the respective national deviations.

ÄNDERUNGEN VORBEHALTEN　**ALTERATIONS RESERVED**